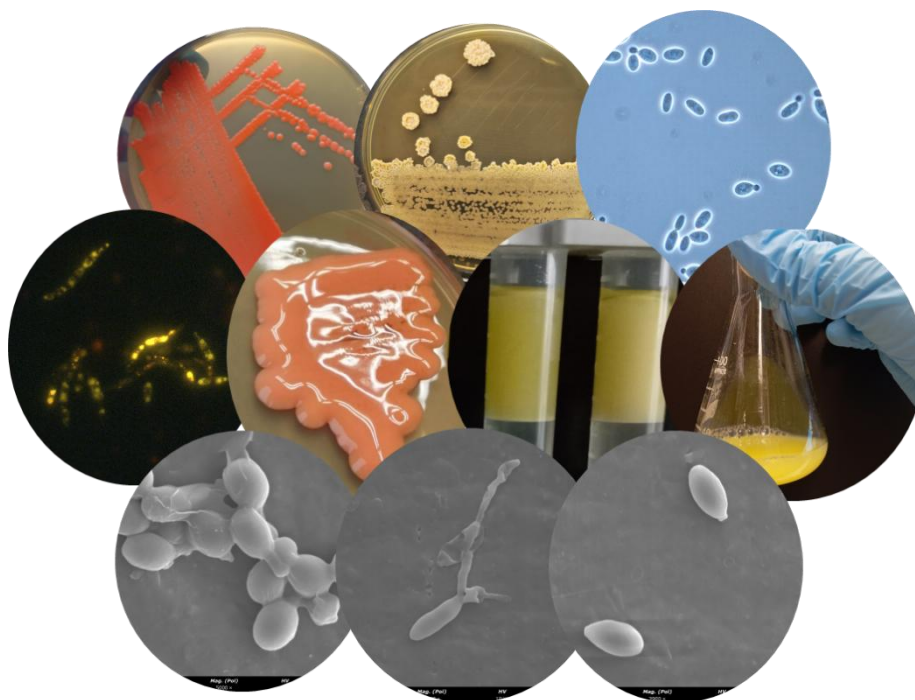




IST-Yeasts Culture Collection (IST-Yeasts CC) of **Blue Yeasts** at iBB, IST, ULisboa

Strain Catalog

2025



iBB, IST, ULisboa, Lisboa, Portugal

IST-Yeasts Culture Collection

Strain Catalog

Version 1.0

2025

Address and contacts

IST-Yeasts Culture Collection

Avenida Rovisto Pais – IST, Biological Sciences Research Group, Torre Sul, 1049-001 Lisboa, Portugal

Tel.: 218 417 687

Website:

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Acknowledgements

This work was financially supported by “Pacto da Bioeconomia azul” (Project No. C644915664-00000026) within the WP5 Algae Vertical and the WP9 Portuguese Blue BioBank, funded by Next Generation EU European Fund and the Portuguese Recovery and Resilience Plan (PRR), under the scope of the incentive line “Agendas for Business Innovation” through the funding scheme C5—Capitalization and Business Innovation. Funding received from Fundação para a Ciência e a Tecnologia (FCT) by iBB—Institute for Bioengineering and Biosciences (UIDB/04565/2020 and UIDP/04565/2020) and i4HB-Institute for Health and Bioeconomy (LA/P/0140/2020), is also acknowledged.

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General Information

The IST-Yeasts CC: Yeast Diversity and Molecular Taxonomy

The IST-Yeasts Culture Collection comprises 115 yeast strains, most of them belonging to the phylum Basidiomycota (92 %) and to the genus *Rhodotorula* (*R. mucilaginosa*, *R. diobovata*, *R. sphaerocarpa*, *R. taiwanensis*) (69 %). The other Basidiomycota species included are: *Cystobasidium minutum* and *C. slooffiae*, *Vishniacozyma carnescens*, *Moesziomyces aphidis*, *Sporobolomyces roseus* and *S. salmonicolor*; and *Naganishia diffluens*. The Ascomycota species present include *Meyerozyma guilliermondii*, [*Candida*] *atlantica* and [*Candida*] *vartiovaarae*.

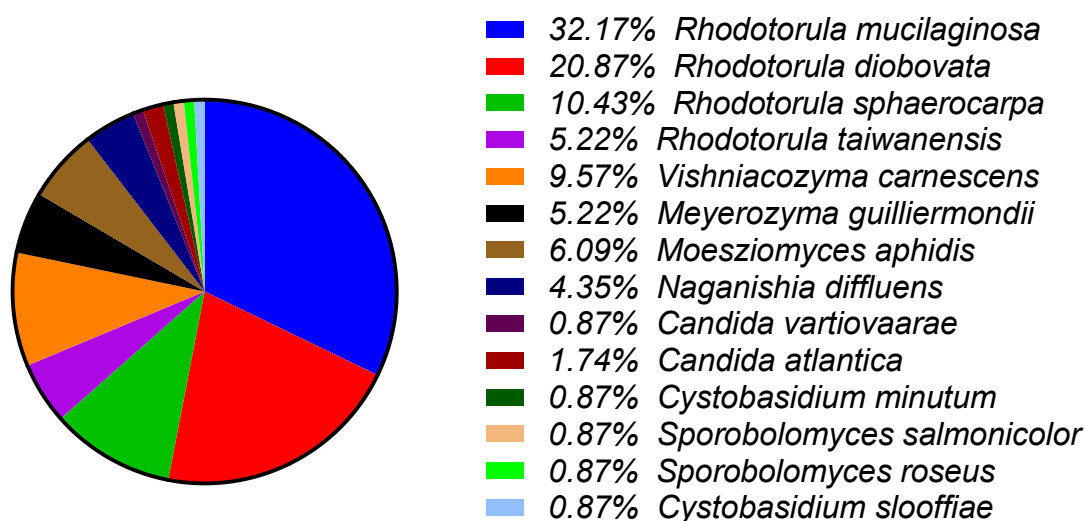


Figure 1. Yeast species distribution in the IST-Yeasts Culture Collection.

The IST-Yeasts CC is a collection of Blue Yeasts isolated from industrial cultures of microalgae and macroalgae during the scaling up process and from the disinfected water from Ria Formosa or Ria de Aveiro used to fill the bioreactors. A few isolates were obtained from cultures of academic collections of Algae. In general, these yeast isolates have the potential to produce bioproducts of biotechnological relevance. This is the case of lipids, biosurfactants, carotenoid pigments (e.g. torularhodin, torulene, carotene), exopolysaccharides, vitamins (e.g. riboflavin) and enzymes. The capacity of many isolates to co-produce some of those added value compounds from a wide range of carbon sources makes them promising microbial cell factories envisaging a sustainable circular bioeconomy. Some yeast isolates are also promising as probiotics in aquaculture.

Other services

The services offered by the IST-Yeasts Culture Collection include the distribution of cultures listed and described in the catalogue and the molecular taxonomic identification of yeasts. The Institute for Bioengineering and Biosciences (iBB; <https://ibb.tecnico.ulisboa.pt/>), a research centre of Instituto Superior Técnico (<https://tecnico.ulisboa.pt/pt/>), University of Lisbon (<https://www.ulisboa.pt/>), where the Culture Collection is located, can also provide consultancy services on scientific and biotechnological aspects of yeasts to the international scientific community and private institutions. The responsible academic Institution of the University of Lisbon, Instituto Superior Técnico, provides advanced training in yeast biology and biotechnology in the context of undergraduate program in Biological Engineering <https://tecnico.ulisboa.pt/en/education/courses/undergraduate-programmes/biological-engineering/> and the master's programs in Biological Engineering, <https://tecnico.ulisboa.pt/en/education/courses/masters-programmes/biological-engineering/>, Biotechnology, <https://tecnico.ulisboa.pt/en/education/courses/masters-programmes/biotechnology/> and Microbiology <https://tecnico.ulisboa.pt/en/education/courses/masters-programmes/microbiology/> and the PhD program in Biotechnology and Biosciences <https://fenix.tecnico.ulisboa.pt/cursos/dbiotec>. Short-term and intensive training courses on topics related with yeast biology and biotechnology, molecular identification, could be taught in the framework of the IST-Yeasts Culture Collection.

For more information on culture distribution, please check below. For more information on other services check our website or contact us at blueyeastsc@tecnico.ulisboa.pt.

How to Order Strains

Ordering

1. Access our database (or Culture Collection Catalogue)
2. Use our advanced search to find a specific strain based on filters according to what you are looking for.
3. You can select one or more strains, download the information on the selected strains and add them to your cart.
4. Select the option “request strain” and fill the information asked:
 - Name of the person and institution to which the strain must be sent
 - Legal representative of the institution
 - Complete address of the applicant institution
 - Shipping address of the recipient institution (if different from above)

- Valid email
 - VAT number
5. All the information will be compiled into an email sent to IST-Yeasts CC curators and to the applicant.
 6. The IST-Yeasts CC team will contact the applicant to confirm/deny the request, sending the appropriate Material Transfer Agreement (MTA), specific to the cultures requested and providing payment instructions.
 7. The legal representative of the applicant institution/company must download, complete and sign the Material Transfer Agreement (MTA) in which the reason for which the strain is requested is stated (e.g. research, teaching, etc.). By ordering from the IST-Yeasts CC the applicant accepts these terms and conditions. After signing, the MTA should be sent to the IST-Yeasts CC Curators (using contact email).

The requested cultures will be sent only after receiving the signed MTA and an order note confirming that the recipient institution will pay the stipulated value.

By ordering strains from IST-Yeasts CC, the customer agrees to not re-sell, borrow, transfer, or give our strains to third parties. Check our terms and services.

Prices

Culture supply	Price
For academic/non-profit use	100 €/strain*
For commercial use please contact us at blueyeastsc@tecnico.ulisboa.pt	

* to this value is added a VAT rate of 23% PLUS the shipping costs.

A 10% discount will be applied for 10 or more requested strains

Culture Supply

All the cultures listed and described in the catalogue of the IST-Yeasts Culture Collection are available on request for educational and research purposes. The strains may also be available for commercial purposes, subject to the specific agreement between the IST-Yeasts CC and the applicant institution/company.

Strains are cryopreserved at -80°C in a solution of 15% (v/v) glycerol and need to be revitalized before shipping; this procedure usually takes a few days. Moreover, prior to any shipment, the purity, vitality and morphological traits of the strain will be checked. The entire procedure will last approximately up to 3-4 weeks.

The cultures are supplied in a solid agar-medium plate. It is advisable to examine the strain vitality, purity or expected culture traits, upon arrival. Any unsatisfactory strain received will be replaced upon request if IST-Yeasts CC is notified within 4 weeks from shipment.

IST-Yeasts CC Acknowledgement

Customers agree to cite properly the IST-Yeasts CC strain number(s) in all publications or patent applications and to acknowledge the IST-Yeasts CC culture collection as the source of the strains. Customers are kindly requested to inform us of any publication including IST-Yeasts CC strains.

Handling and Safety Issues

Cultures sent by IST-Yeasts CC should only be opened and used by trained personnel, in suitable laboratory conditions.

IST-Yeasts CC is not responsible for any damage or injury that might happen after arrival.

The customer should maintain, grow, use or dispose of the cultures in accordance with appropriate procedures and precautions to avoid risks to people and to the environment. It is recommended that all the environmental strains in the IST-Yeasts CC are manipulated with caution. Some species are described as opportunistic pathogens, and it is possible that some strains may produce metabolites of unknown toxicity.

In all situations, customers are advised to use a Class II biosafety cabinet for work with the cultures, and an autoclave or other suitable method for disposal and decontamination within the lab.

Catalog – Strain Sheets

IST637

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of <i>Limnospira maxima</i>	Collection Date	21/06/2023
Location	Algoteca, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP116148	NCBI ITS Accession Number	PP115446

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

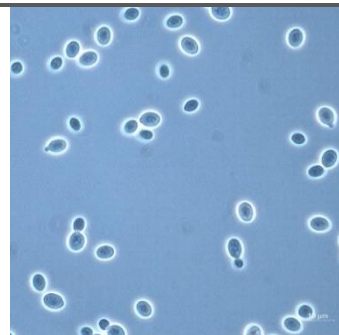
IST638

Naganishia diffluens (Zach) Liu *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus diffluens</i> , <i>Cryptococcus albidus</i> var. <i>diffluens</i>		
Family	Filobasidiaceae	Class	Tremellomycetes
Order	Filobasidiales	Phylum	Basidiomycota
Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of <i>Haematococcus rubens</i>	Collection Date	21/06/2023
Location	Algoteca, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP156550	NCBI ITS Accession Number	PP158637
Colony morphology	White to cream, mucoid		
Liquid culture Characteristics	White to cream (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of lipids.		

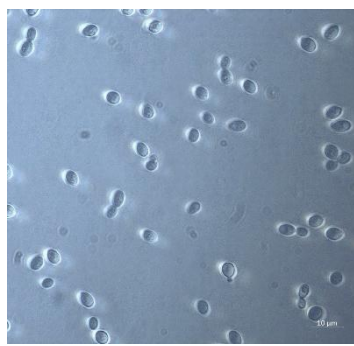
References

IST639

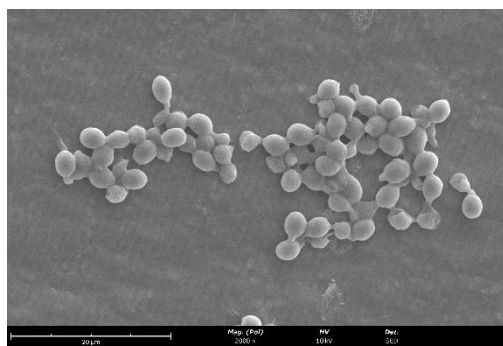
Cystobasidium minutum (Saito) Yurkov *et al.* 2014



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 2000x

Taxon synonyms	Rhodotorula minuta		
Family	Cystobasidiaceae	Class	Cystobasidiomycetes
Order	Cystobasidiales	Phylum	Basidiomycota
Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of Haematococcus rubens	Collection Date	21/06/2023
Location	Algoteca, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP116149	NCBI ITS Accession Number	PP115447
Colony morphology	Light pink, moist to mucoid		
Liquid culture Characteristics	Light pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of lipids and carotenoids.		

References

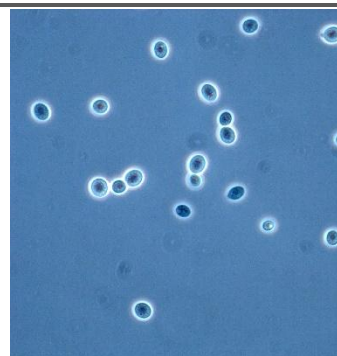
IST640

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of <i>Haematococcus rubens</i>	Collection Date	21/06/2023
Location	Algoteca, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number		NCBI ITS Accession Number	PP115448

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

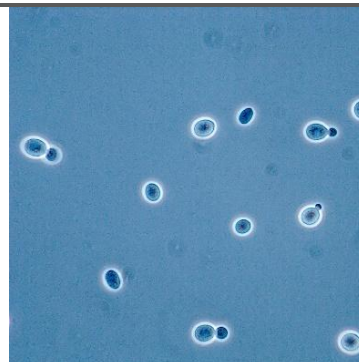
IST641

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of <i>Haematococcus</i> sp.	Collection Date	21/06/2023
Location	Algoteca, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP116150	NCBI ITS Accession Number	PP115449
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

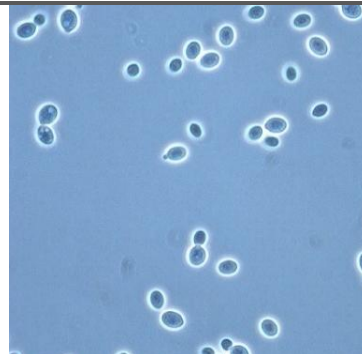
IST642

Naganishia diffluens (Zach) Liu *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus diffluens</i> , <i>Cryptococcus albidus</i> var. <i>diffluens</i>		
Family	Filobasidiaceae	Class	Tremellomycetes
Order	Filobasidiales	Phylum	Basidiomycota

Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of <i>Haematococcus</i> sp.	Collection Date	21/06/2023
Location	Algoteca, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP116151	NCBI ITS Accession Number	PP115450

Colony morphology	White to cream, mucoid
Liquid culture Characteristics	White to cream (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids.
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References

IST644

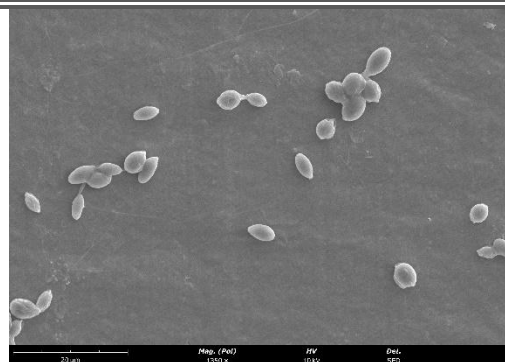
Sporobolomyces salmonicolor (B. Fisch. & Brebeck) Kluyver & C.B. Niel, 1924



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 1350x

Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Luísa Dâmaso, Ana Amorim		
Source	Culture of <i>Haematococcus</i> sp.	Collection Date	21/06/2023
Location	Algoteica, Faculdade Ciências ULisboa, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP116153	NCBI ITS Accession Number	PP115452

Colony morphology	Salmon-pink, smooth and pasty texture
Liquid culture Characteristics	Salmon-pink (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and enzymes (lipase).
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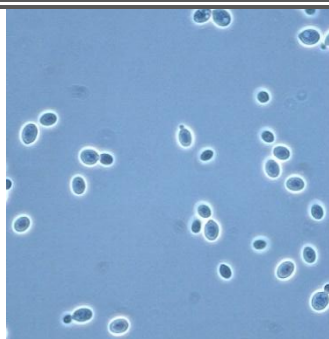
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IST650

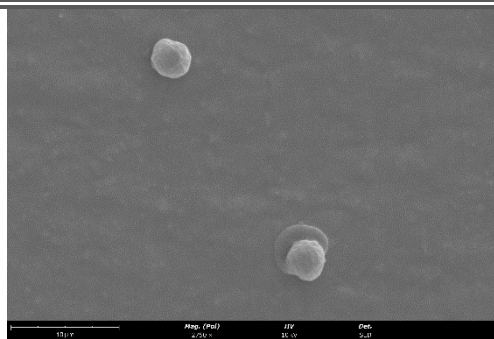
Naganishia diffluens (Zach) Liu *et al.* 2015



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 2750x

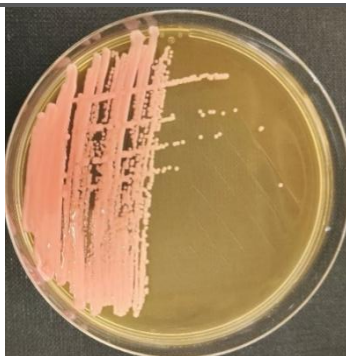
Taxon synonyms	<i>Cryptococcus diffluens</i> , <i>Cryptococcus albidus</i> var. <i>diffluens</i>		
Family	Filobasidiaceae	Class	Tremellomycetes
Order	Filobasidiales	Phylum	Basidiomycota
Collector(s)	Madalena Mendes (Greencolab & ALGAplus), Inês Oliveira (ALGAplus)		
Source	Culture of <i>Porphyra dioica</i> : Life stage 1	Collection Date	09/11/2023
Location	ALGAplus, Ílhavo, Aveiro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP156551	NCBI ITS Accession Number	PP158638
Colony morphology	White to cream, mucoid		
Liquid culture Characteristics	White to cream (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of lipids.		

References

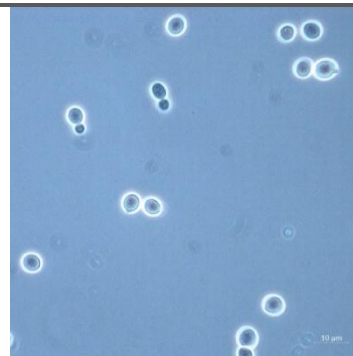
IST654

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Madalena Mendes (Greencolab & ALGAplus), Inês Oliveira (ALGAplus)		
Source	Culture of <i>Porphyra dioica</i> : Life stage 2	Collection Date	09/11/2023
Location	ALGAplus, Ílhavo, Aveiro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP341335	NCBI ITS Accession Number	PP341883
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

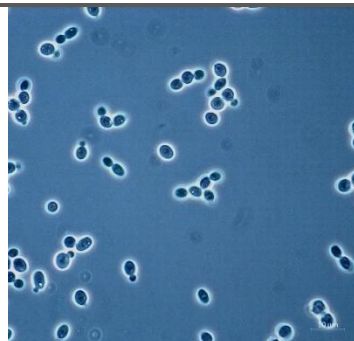
References

IST662

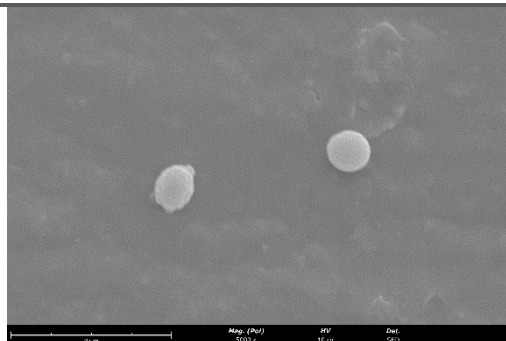
[*Candida*] *vartiovaarae* (Capr.) Uden & H.R. Buckley, 1983



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 5000x

Taxon synonyms

Family	Phaffomycetaceae	Class	Saccharomycetes
Order	Phaffomycetales	Phylum	Ascomycota

Collector(s)	Madalena Mendes (Greencolab & ALGAplus), Inês Oliveira (ALGAplus)		
Source	Culture of <i>Porphyra dioica</i> : Life stage 4	Collection Date	09/11/2023
Location	ALGAplus, Ílhavo, Aveiro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP156560	NCBI ITS Accession Number	PP158647

Colony morphology	Cream, smooth, slightly shiny		
Liquid culture Characteristics	Cream (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits

References

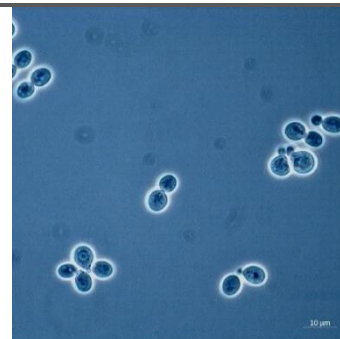
IST671

Naganishia diffluens (Zach) Liu *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus diffluens</i> , <i>Cryptococcus albidus</i> var. <i>diffluens</i>		
Family	Filobasidiaceae	Class	Tremellomycetes
Order	Filobasidiales	Phylum	Basidiomycota

Collector(s)	Madalena Mendes (Greencolab & ALGAplus), Inês Oliveira (ALGAplus)		
Source	Culture of <i>Porphyra dioica</i> : Life stage 5	Collection Date	09/11/2023
Location	ALGAplus, Ílhavo, Aveiro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP156565	NCBI ITS Accession Number	PP158652

Colony morphology	White to cream, mucoid
Liquid culture Characteristics	White to cream (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids.
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References

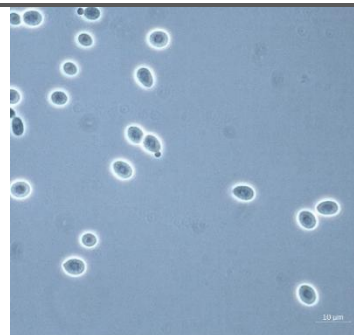
IST675

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	21/11/2023
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP341339	NCBI ITS Accession Number	PP341887

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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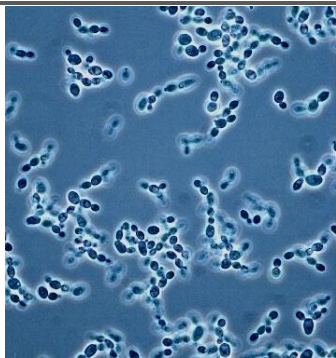
References

IST681

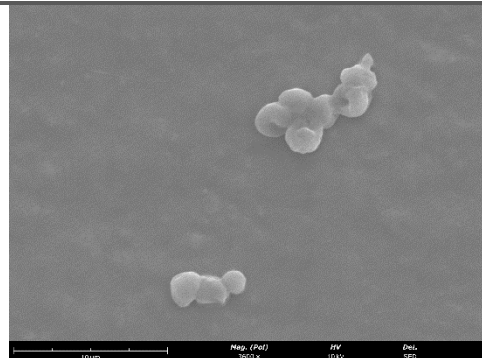
[*Candida*] *atlantica* (Siepmann) S. A. Meyer & Simione, 1998



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 3600x

Taxon synonyms

Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Seriales	Phylum	Ascomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	21/11/2023
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP341345	NCBI ITS Accession Number	PP341893

Colony morphology	Cream, Dull, Rough texture		
Liquid culture Characteristics	Cream (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits	Psychrotrophic (10 °C to 25 °C).		
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References

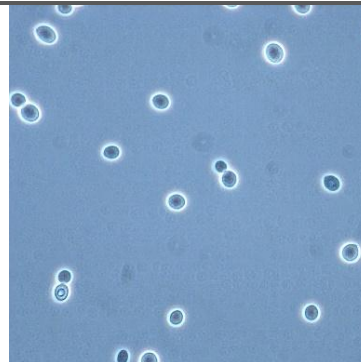
IST685

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	21/11/2023
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP341349	NCBI ITS Accession Number	PP341897
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

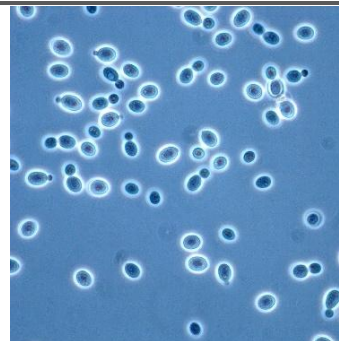
IST709

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	27/11/2023
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP341369	NCBI ITS Accession Number	PP341916

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

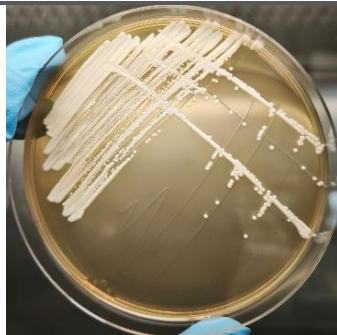
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

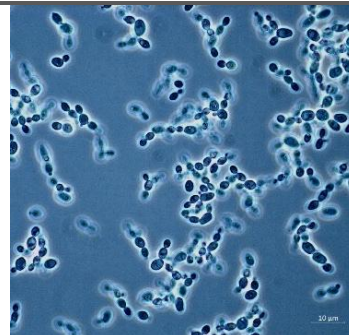
IST723

[*Candida*] *atlantica* (Siepmann) S. A. Meyer & Simione, 1998

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Serinales	Phylum	Ascomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	27/11/2023
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP341380	NCBI ITS Accession Number	PP341927

Colony morphology	Cream, Dull, Rough texture
Liquid culture Characteristics	Cream (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

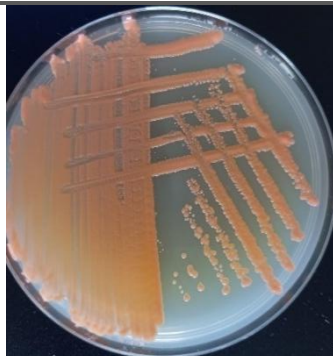
Biotechnological traits	Psychrotrophic (10 °C to 25 °C).
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References

IST724

Sporobolomyces roseus Kluyver & C.B. Niel, 1924

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Madalena Mendes (Greencolab & ALGAplus), Inês Oliveira (ALGAplus)		
Source	Culture of <i>Porphyra dioica</i> : Life stage 5	Collection Date	09/11/2023
Location	ALGAplus, Ílhavo, Aveiro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP156566	NCBI ITS Accession Number	PP158653

Colony morphology	Reddish-pink, slightly shiny and smooth
Liquid culture Characteristics	Reddish-pink (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	10 °C		

Biotechnological traits	Production of carotenoids, lipids and enzymes. Psychrotrophic (5 °C to 25 °C).
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References

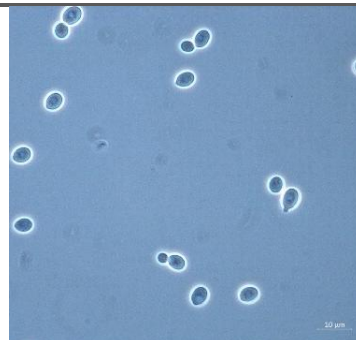
IST725

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	03/01/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP470779	NCBI ITS Accession Number	PP470798

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

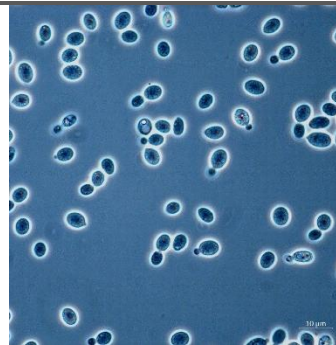
IST727

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	03/01/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP470781	NCBI ITS Accession Number	PP470800

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

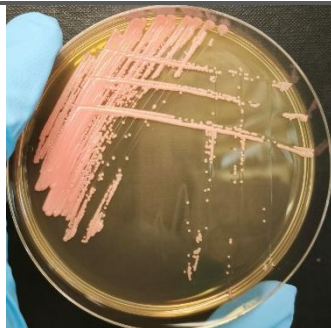
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

IST729

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



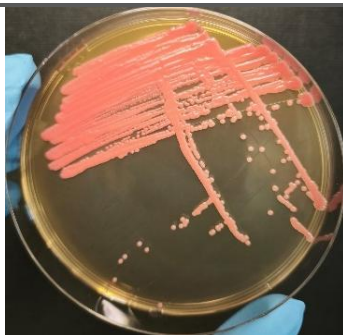
Taxon synonyms	Rhodosporidium diobovatum		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, photobioreactor	Collection Date	22/01/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP470783	NCBI ITS Accession Number	PP470802
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

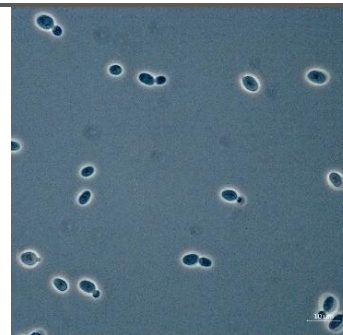
IST730

Rhodotorula taiwanensis Lee *et al.*, 2021

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s) Natacha Coelho, Inês Costa (Necton)

Source Culture of *Microchloropsis gaditana*, photobioreactor **Collection Date** 22/01/2024

Location Necton, Olhão, Faro, Portugal **Latitude & Longitude** Unknown

Isolator(s) Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)

Basis for identification Molecular (D1/D2 & ITS)

NCBI 28S Accession Number [PP470784](#) **NCBI ITS Accession Number** [PP470803](#)

Colony morphology Salmon-pink to orange, slightly shiny and smooth

Liquid culture Characteristics Salmon-pink to orange (in colorless medium)

Preservation Type -80 °C, 15% (v/v) glycerol **Medium** YPD
Temperature 30 °C

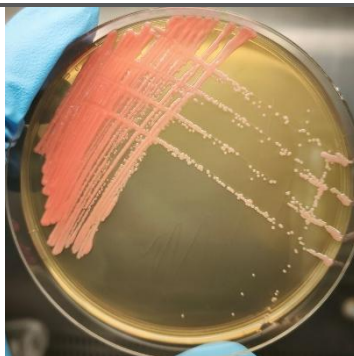
Biotechnological traits Production of carotenoids, lipids, biosurfactants, exopolysaccharides. Tolerant to radiation and heavy metals.

References

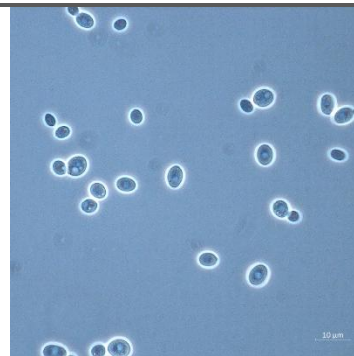
IST733

Rhodotorula taiwanensis Lee *et al.*, 2021

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , column	Collection Date	23/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380541	NCBI ITS Accession Number	PQ396197

Colony morphology	Salmon-pink to orange, slightly shiny and smooth
Liquid culture Characteristics	Salmon-pink to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants, exopolysaccharides. Tolerant to radiation and heavy metals.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

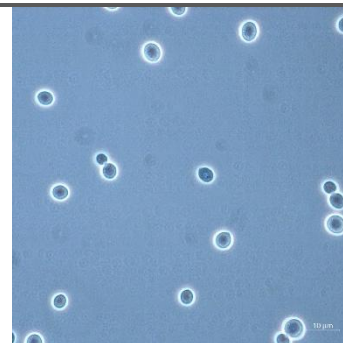
IST735

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , column	Collection Date	23/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380543	NCBI ITS Accession Number	PQ396199

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

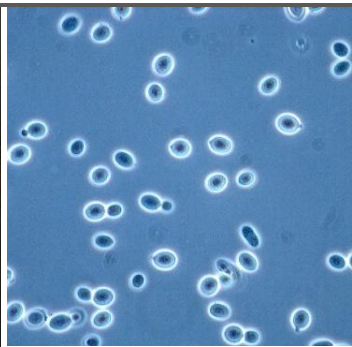
Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST736

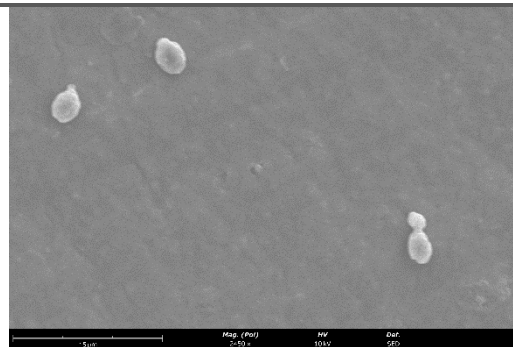
Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 2450x

Taxon synonyms	Rhodosporidium diobovatum		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, column	Collection Date	23/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ682403	NCBI ITS Accession Number	-----
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

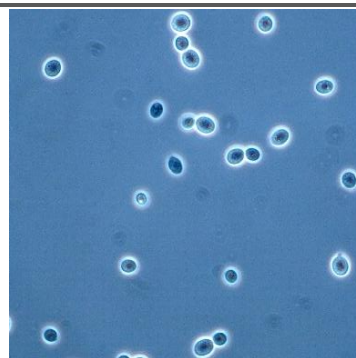
IST737

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodotorula mucilaginosa		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, column	Collection Date	23/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380544	NCBI ITS Accession Number	PQ396200
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

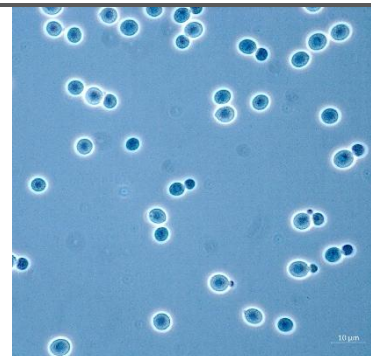
IST739

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodotorula mucilaginosa		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, flask	Collection Date	23/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380546	NCBI ITS Accession Number	PQ396202
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

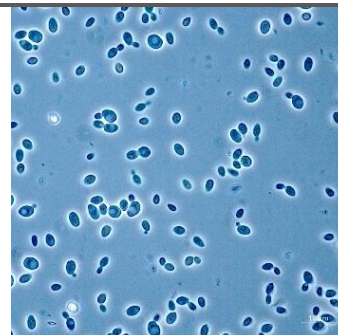
IST742

Meyerozyma guilliermondii (Wickerham) Kurtzman & M. Suzuki, 2010

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Candida guilliermondii</i> , <i>Endomyces guilliermondii</i> , <i>Pichia guilliermondii</i> , <i>Yamadazyma guilliermondii</i>		
Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Seriales	Phylum	Ascomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , flat panel	Collection Date	22/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340620	NCBI ITS Accession Number	PQ340650
Colony morphology	Cream, shiny and smooth		
Liquid culture Characteristics	White or yellow (if riboflavin production is possible)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of riboflavin and lipids.		

References

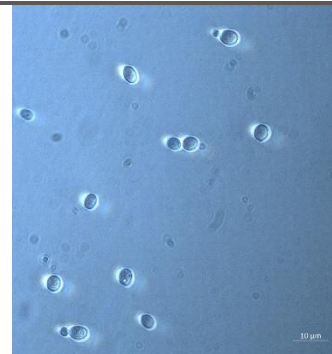
IST744

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodotorula mucilaginosa		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Nannochloropsis oceanica, flat panel	Collection Date	22/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340622	NCBI ITS Accession Number	PQ340652
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

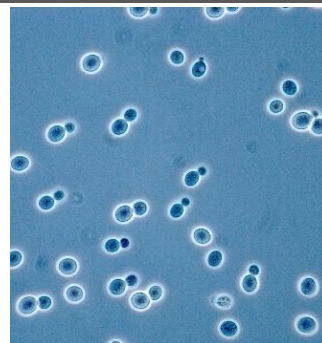
IST753

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , flask	Collection Date	15/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340631	NCBI ITS Accession Number	PQ340661

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

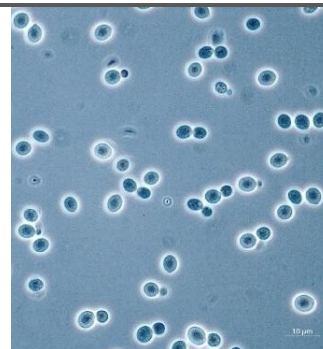
IST754

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , column	Collection Date	22/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340632	NCBI ITS Accession Number	PQ340662

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

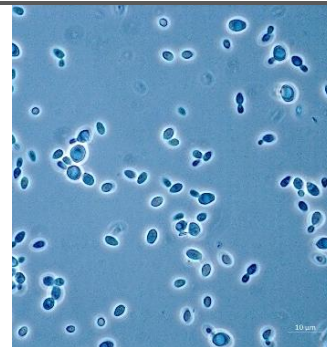
IST757

Meyerozyma guilliermondii (Wickerham) Kurtzman & M. Suzuki, 2010

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Candida guilliermondii</i> , <i>Endomyces guilliermondii</i> , <i>Pichia guilliermondii</i> , <i>Yamadazyma guilliermondii</i>		
Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Serinales	Phylum	Ascomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , column	Collection Date	15/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340635	NCBI ITS Accession Number	PQ340665

Colony morphology	Cream, shiny and smooth
Liquid culture Characteristics	White or yellow (if riboflavin production is possible)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of riboflavin and lipids.
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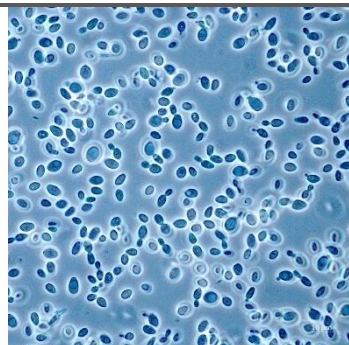
References

IST760

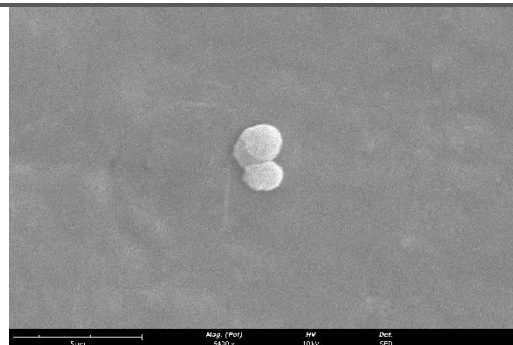
Meyerozyma guilliermondii (Wickerham) Kurtzman & M. Suzuki, 2010



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 5400x

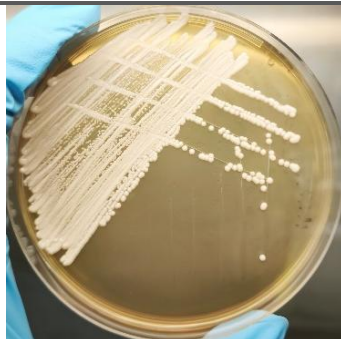
Taxon synonyms	<i>Candida guilliermondii</i> , <i>Endomyces guilliermondii</i> , <i>Pichia guilliermondii</i> , <i>Yamadazyma guilliermondii</i>		
Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Serinales	Phylum	Ascomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , flask	Collection Date	15/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340638	NCBI ITS Accession Number	PQ340668
Colony morphology	Cream, shiny and smooth		
Liquid culture Characteristics	White or yellow (if riboflavin production is possible)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of riboflavin and lipids.		

References

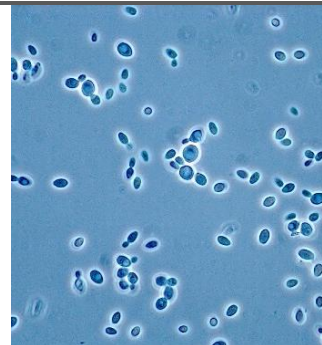
IST766

Meyerozyma guilliermondii (Wickerham) Kurtzman & M. Suzuki, 2010

Culture in YPD
agar plate



Microphotograph
1000x



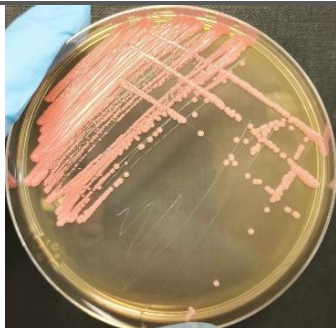
Taxon synonyms	<i>Candida guilliermondii</i> , <i>Endomyces guilliermondii</i> , <i>Pichia guilliermondii</i> , <i>Yamadazyma guilliermondii</i>		
Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Serinales	Phylum	Ascomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , column	Collection Date	22/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340644	NCBI ITS Accession Number	PQ340674
Colony morphology	Cream, shiny and smooth		
Liquid culture Characteristics	White or yellow (if riboflavin production is possible)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of riboflavin and lipids.		

References

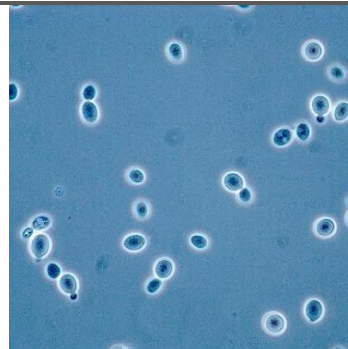
IST778

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , column	Collection Date	22/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380553	NCBI ITS Accession Number	PQ396209
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

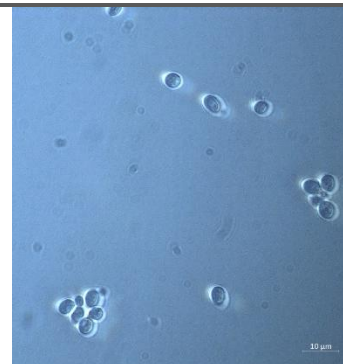
IST779

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , column	Collection Date	15/02/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380554	NCBI ITS Accession Number	PQ396210

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

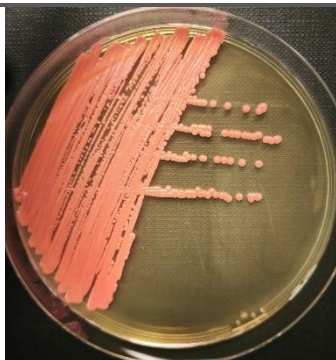
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

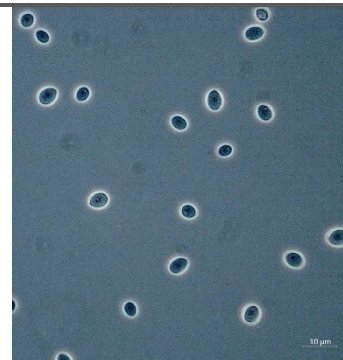
IST783

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	14/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340695	NCBI ITS Accession Number	PQ340716

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

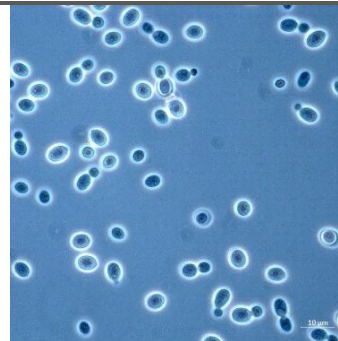
IST784

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	14/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340696	NCBI ITS Accession Number	PQ340717

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varella, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

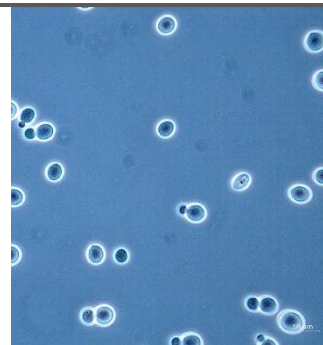
IST785

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , column	Collection Date	06/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340697	NCBI ITS Accession Number	PQ340718

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

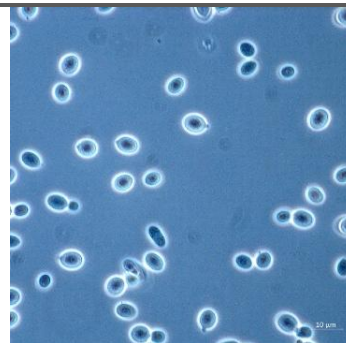
IST786

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , flat panel	Collection Date	11/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340698	NCBI ITS Accession Number	PQ340719

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

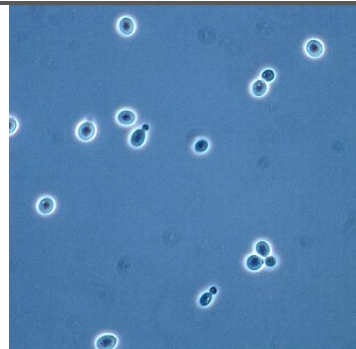
IST789

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	06/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340701	NCBI ITS Accession Number	PQ340722

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

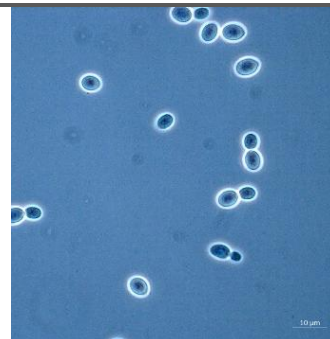
IST790

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Nannochloropsis oceanica</i> , flat panel	Collection Date	07/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340702	NCBI ITS Accession Number	PQ340723

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

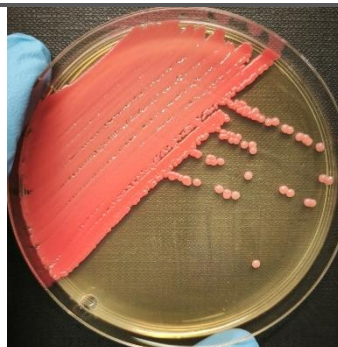
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

IST794

Rhodotorula taiwanensis Lee et al., 2021

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s) Natacha Coelho, Inês Costa (Necton)

Source Culture of *Microchloropsis gaditana*, flat panel

Collection Date 06/03/2024

Location Necton, Olhão, Faro, Portugal

Latitude & Longitude Unknown

Isolator(s) Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)

Basis for identification Molecular (D1/D2 & ITS)

NCBI 28S Accession Number [PQ340705](#)

NCBI ITS Accession Number [PQ340726](#)

Colony morphology Salmon-pink to orange, slightly shiny and smooth

Liquid culture Characteristics Salmon-pink to orange (in colorless medium)

Preservation Type -80 °C, 15% (v/v) glycerol

Medium YPD

Temperature 30 °C

Biotechnological traits Production of carotenoids, lipids, biosurfactants, exopolysaccharides. Tolerant to radiation and heavy metals.

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

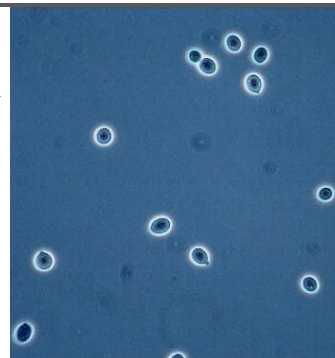
IST795

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodotorula mucilaginosa		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, flat panel	Collection Date	06/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ340706	NCBI ITS Accession Number	PQ340727
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

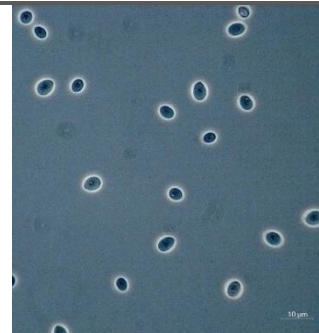
IST805

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s) Natacha Coelho, Inês Costa (Necton)

Source Culture of *Microchloropsis gaditana*, flat panel **Collection Date** 02/04/2024

Location Necton, Olhão, Faro, Portugal **Latitude & Longitude** Unknown

Isolator(s) Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)

Basis for identification Molecular (D1/D2 & ITS)

NCBI 28S Accession Number [PP944307](#) **NCBI ITS Accession Number** [PP952017](#)

Colony morphology Red to orange, smooth, moist to mucoid

Liquid culture Red to orange (in colorless medium)

Characteristics

Preservation Type -80 °C, 15% (v/v) glycerol **Medium** YPD

Temperature 30 °C

Biotechnological traits

Production of carotenoids, lipids and biosurfactants.

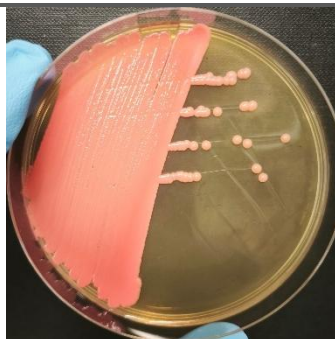
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

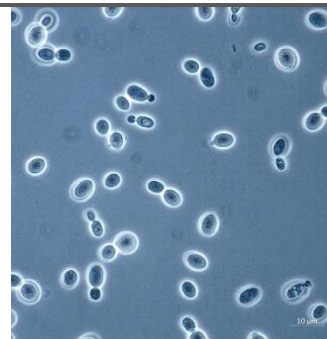
IST806

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	02/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP944308	NCBI ITS Accession Number	PP952018
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

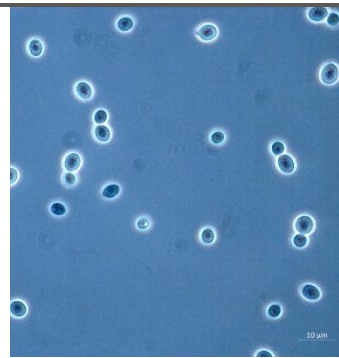
IST808

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	02/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP944310	NCBI ITS Accession Number	PP952020

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

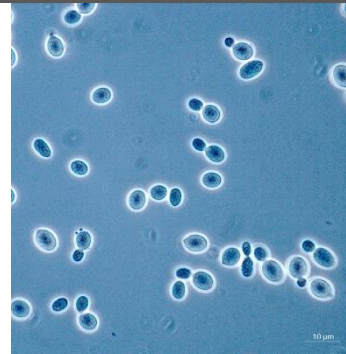
IST810

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	Rhodosporidium diobovatum		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, flat panel	Collection Date	02/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP944302	NCBI ITS Accession Number	PP952012
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

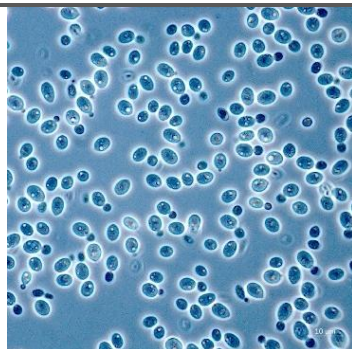
Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST816

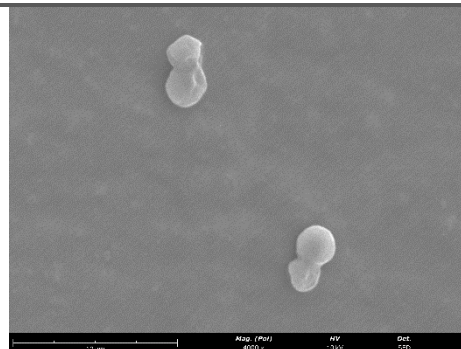
Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 4000x

Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	14/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341202	NCBI ITS Accession Number	PQ351452

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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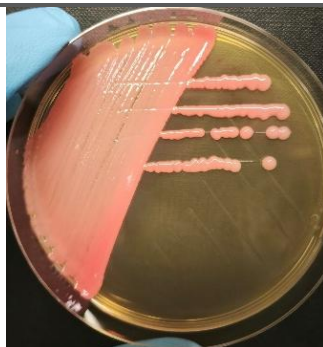
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

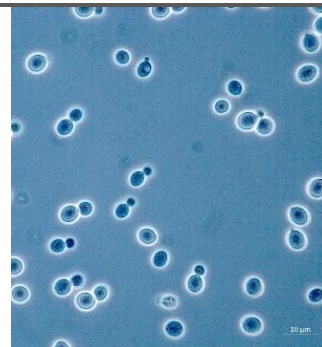
IST818

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	14/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341204	NCBI ITS Accession Number	PQ351454

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST823

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	25/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341209	NCBI ITS Accession Number	PQ351459

Colony morphology	Coral pink, smooth, moist to mucoid
Liquid culture Characteristics	Coral pink (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

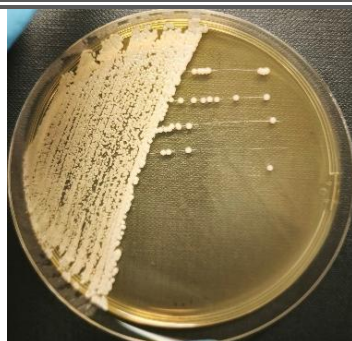
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.
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References

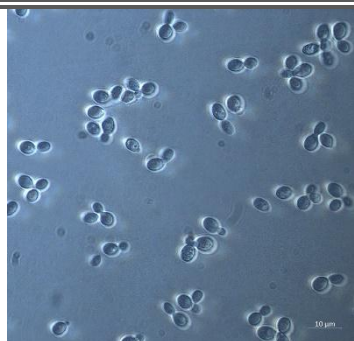
Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varella, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST827

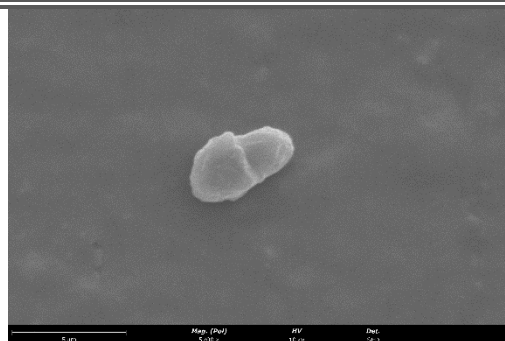
Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 5700x

Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	02/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PP944311	NCBI ITS Accession Number	PP952021
Colony morphology	White to cream		
Liquid culture Characteristics	White (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

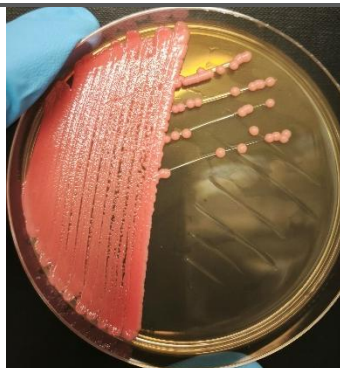
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

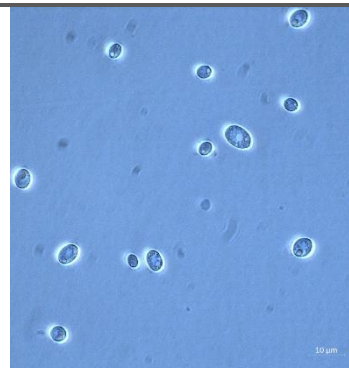
IST829

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	25/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341213	NCBI ITS Accession Number	PQ351463

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

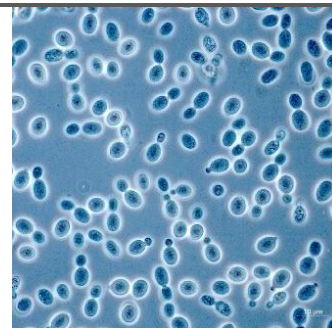
IST838

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	25/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341222	NCBI ITS Accession Number	PQ351472
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

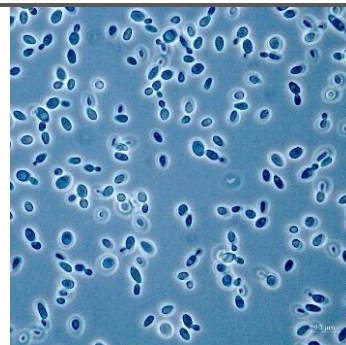
IST848

Meyerozyma guilliermondii (Wickerham) Kurtzman & M. Suzuki, 2010

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Candida guilliermondii</i> , <i>Endomyces guilliermondii</i> , <i>Pichia guilliermondii</i> , <i>Yamadazyma guilliermondii</i>		
Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Serinales	Phylum	Ascomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	25/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341232	NCBI ITS Accession Number	PQ351482

Colony morphology	Cream, shiny and smooth
Liquid culture Characteristics	White or yellow (if riboflavin production is possible)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of riboflavin and lipids.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

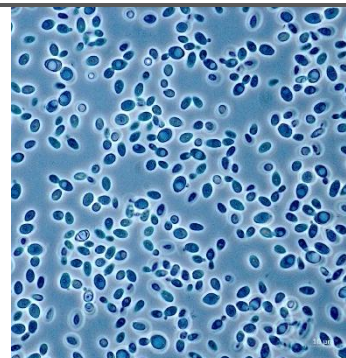
IST849

Meyerozyma guilliermondii (Wickerham) Kurtzman & M. Suzuki, 2010

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Candida guilliermondii</i> , <i>Endomyces guilliermondii</i> , <i>Pichia guilliermondii</i> , <i>Yamadazyma guilliermondii</i>		
Family	Debaryomycetaceae	Class	Pichiomycetes
Order	Seriales	Phylum	Ascomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	25/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341233	NCBI ITS Accession Number	PQ351483
Colony morphology	Cream, shiny and smooth		
Liquid culture Characteristics	White or yellow (if riboflavin production is possible)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of riboflavin and lipids.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

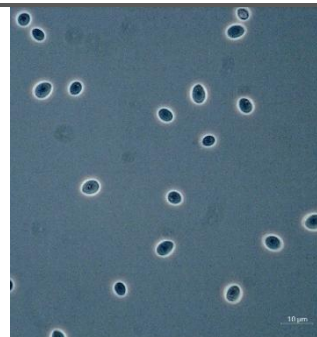
IST851

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	08/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341235	NCBI ITS Accession Number	PQ351485

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

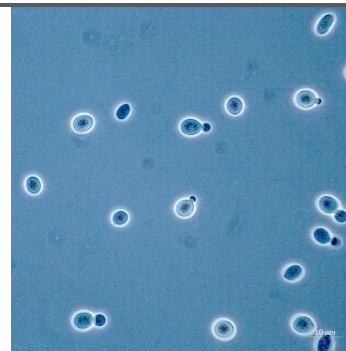
IST852

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	25/03/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ341236	NCBI ITS Accession Number	PQ351486

Colony morphology	Coral pink, smooth, moist to mucoid
Liquid culture Characteristics	Coral pink (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

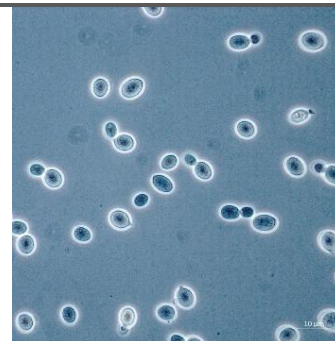
IST865

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	03/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380556	NCBI ITS Accession Number	PQ396212

Colony morphology	Coral pink, smooth, moist to mucoid
Liquid culture Characteristics	Coral pink (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.
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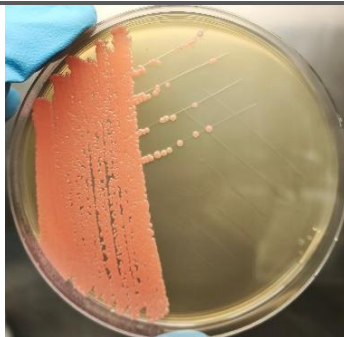
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varella, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

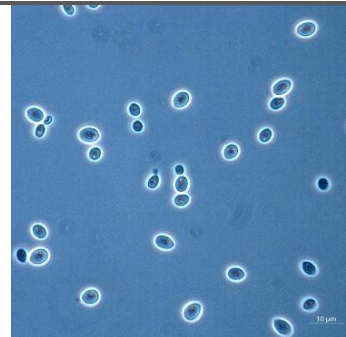
IST870

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	03/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380559	NCBI ITS Accession Number	PQ396215

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

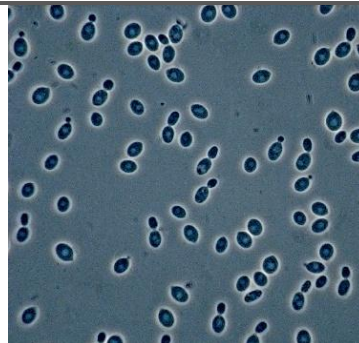
IST878

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	11/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380567	NCBI ITS Accession Number	PQ396223

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

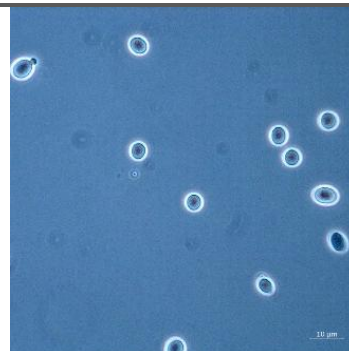
IST879

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	11/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380568	NCBI ITS Accession Number	PQ396224

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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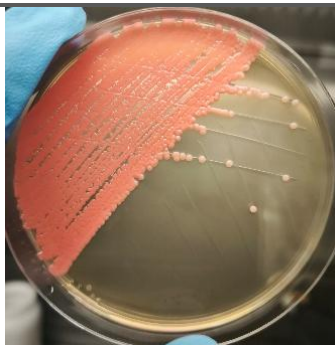
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST885

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380573	NCBI ITS Accession Number	PQ396229

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

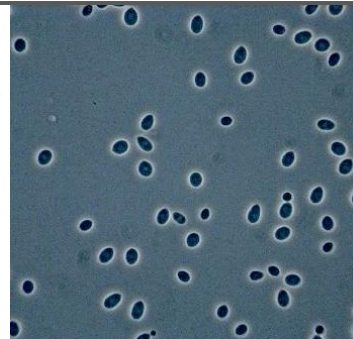
IST889

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	08/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380577	NCBI ITS Accession Number	PQ396233

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

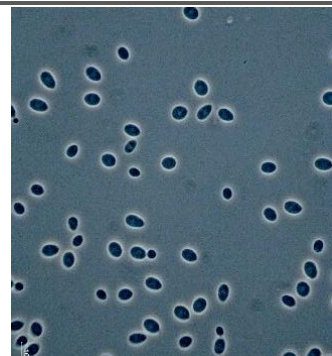
IST890

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodotorula mucilaginosa		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, photobioreactor	Collection Date	11/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380578	NCBI ITS Accession Number	PQ396234
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

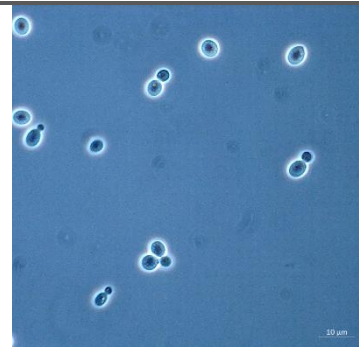
IST891

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	11/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380579	NCBI ITS Accession Number	PQ396235

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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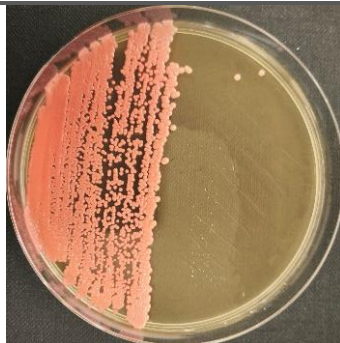
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST903

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	16/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344279	NCBI ITS Accession Number	PQ351557

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

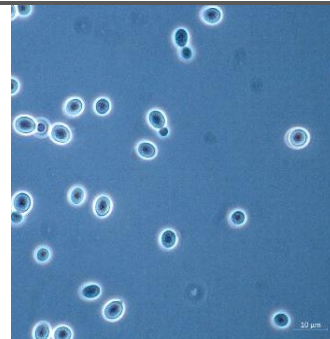
IST907

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	16/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344283	NCBI ITS Accession Number	PQ351561

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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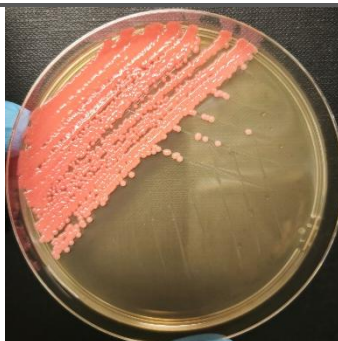
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST909

Rhodotorula taiwanensis Lee *et al.*, 2021

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344285	NCBI ITS Accession Number	PQ351563

Colony morphology	Salmon-pink to orange, slightly shiny and smooth
Liquid culture Characteristics	Salmon-pink to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants, exopolysaccharides. Tolerant to radiation and heavy metals.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

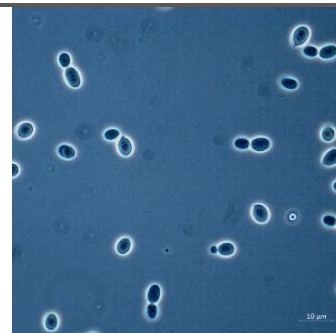
IST910

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344286	NCBI ITS Accession Number	PQ351564
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

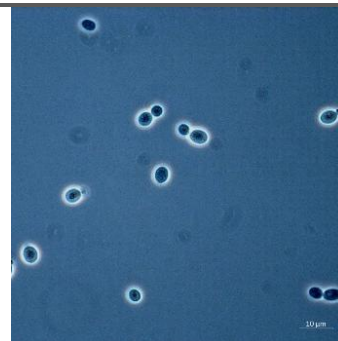
IST912

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344288	NCBI ITS Accession Number	PQ351566

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

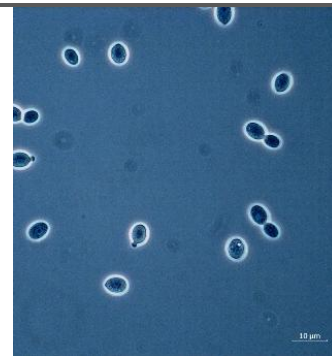
IST913

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344289	NCBI ITS Accession Number	PQ351567
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varella, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

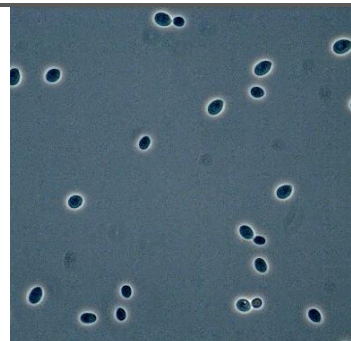
IST915

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s) Natacha Coelho, Inês Costa (Necton)

Source Culture of *Microchloropsis gaditana*, flat panel

Collection Date 26/04/2024

Location Necton, Olhão, Faro, Portugal

Latitude & Longitude Unknown

Isolator(s) Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)

Basis for identification Molecular (D1/D2 & ITS)

NCBI 28S Accession Number [PQ344291](#)

NCBI ITS Accession Number [PQ351569](#)

Colony morphology Red to orange, smooth, moist to mucoid

Liquid culture Characteristics Red to orange (in colorless medium)

Preservation Type -80 °C, 15% (v/v) glycerol

Medium YPD

Temperature 30 °C

Biotechnological traits

Production of carotenoids, lipids and biosurfactants.

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

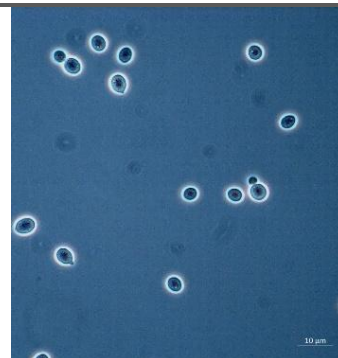
IST918

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodotorula mucilaginosa		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, flat panel	Collection Date	30/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344294	NCBI ITS Accession Number	PQ351572
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

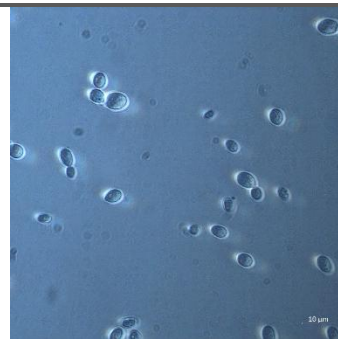
IST919

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	29/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344295	NCBI ITS Accession Number	PQ351573

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

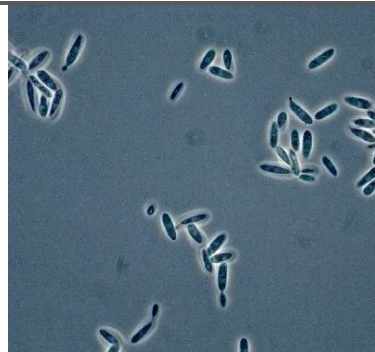
IST922

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344298	NCBI ITS Accession Number	PQ351576

Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		
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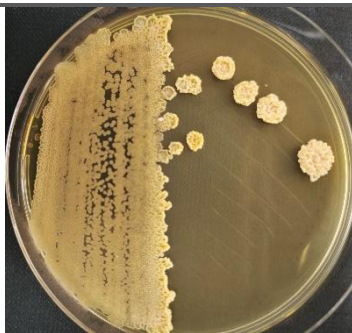
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST923

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	30/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344299	NCBI ITS Accession Number	PQ351577
Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

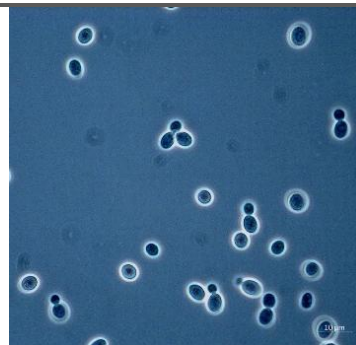
IST925

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	02/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344301	NCBI ITS Accession Number	PQ351579

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

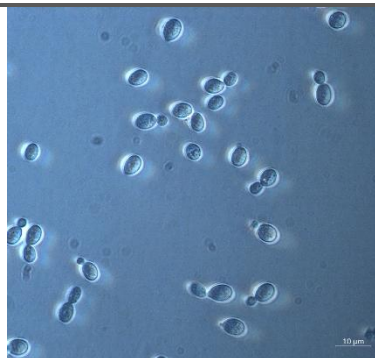
IST927

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	Rhodosporidium diobovatum		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of Microchloropsis gaditana, flat panel	Collection Date	30/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344303	NCBI ITS Accession Number	PQ351581
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varella, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

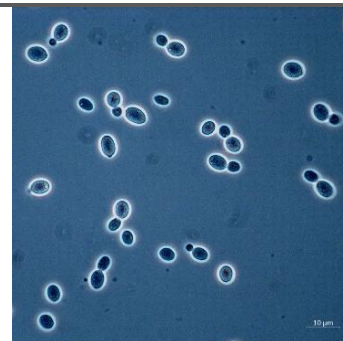
IST929

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	29/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344305	NCBI ITS Accession Number	PQ351583
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

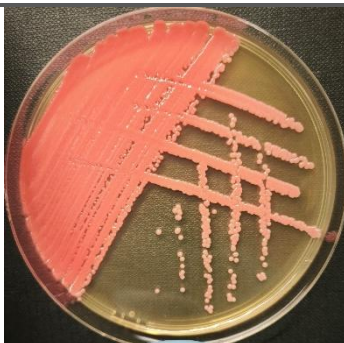
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

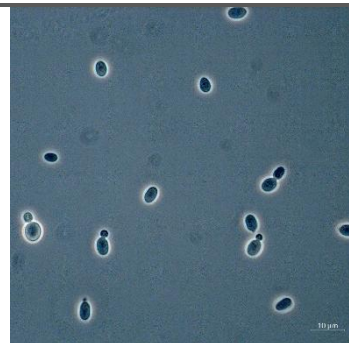
IST933

Rhodotorula taiwanensis Lee *et al.*, 2021

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	30/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344309	NCBI ITS Accession Number	PQ351587

Colony morphology	Salmon-pink to orange, slightly shiny and smooth
Liquid culture Characteristics	Salmon-pink to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants, exopolysaccharides. Tolerant to radiation and heavy metals.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

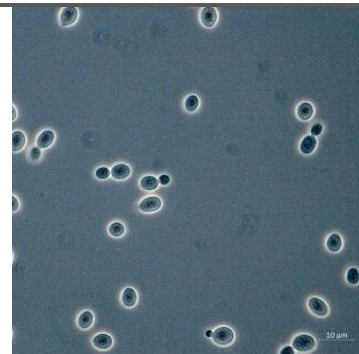
IST935

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	02/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344311	NCBI ITS Accession Number	PQ351589
Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		

References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

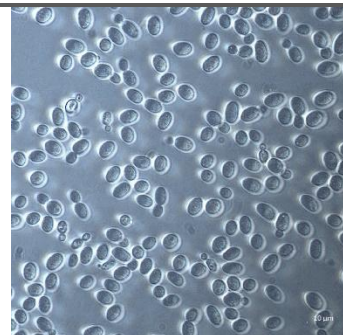
IST936

Rhodotorula taiwanensis Lee *et al.*, 2021

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	02/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344312	NCBI ITS Accession Number	PQ351590

Colony morphology	Salmon-pink to orange, slightly shiny and smooth
Liquid culture Characteristics	Salmon-pink to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants, exopolysaccharides. Tolerant to radiation and heavy metals.
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

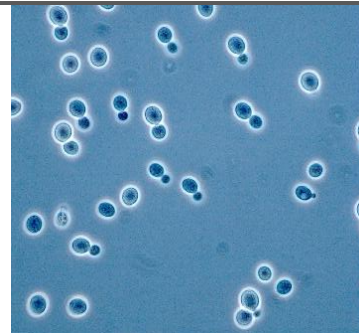
IST937

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flask	Collection Date	02/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344313	NCBI ITS Accession Number	PQ351591

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

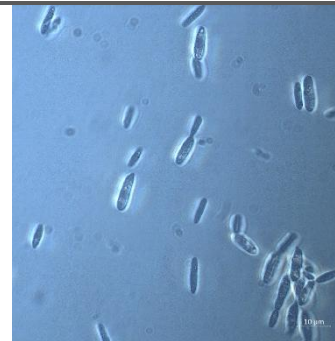
IST940

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	29/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344316	NCBI ITS Accession Number	PQ351594

Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST941

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	02/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344317	NCBI ITS Accession Number	PQ351595

Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST943

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	26/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ344319	NCBI ITS Accession Number	PQ351597

Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

IST945

Naganishia diffluens (Zach) Liu *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x

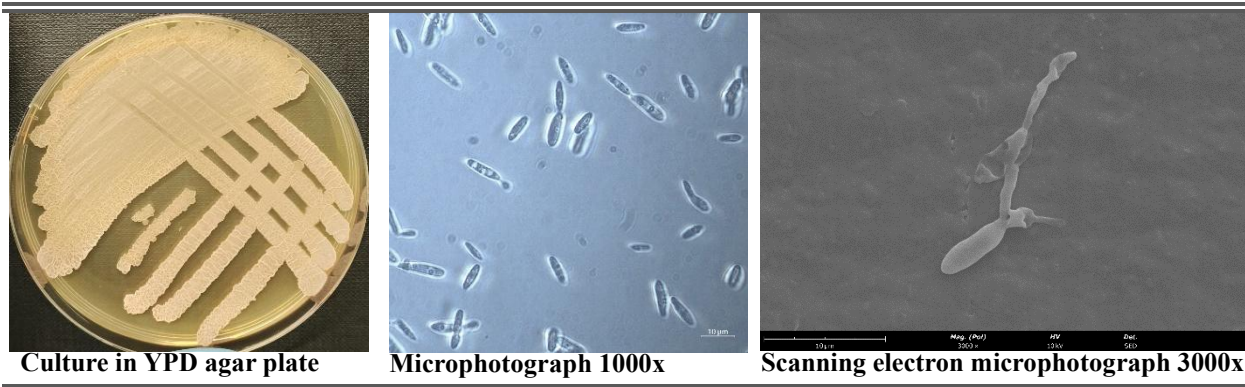


Taxon synonyms	<i>Cryptococcus diffluens</i> , <i>Cryptococcus albidus</i> var. <i>diffluens</i>		
Family	Filobasidiaceae	Class	Tremellomycetes
Order	Filobasidiales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flask	Collection Date	08/05/2023
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346815	NCBI ITS Accession Number	PQ346857
Colony morphology	White to cream, mucoid		
Liquid culture Characteristics	White to cream (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		
Biotechnological traits	Production of lipids.		

References

IST946

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , flat panel	Collection Date	11/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346816	NCBI ITS Accession Number	PQ346858

Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

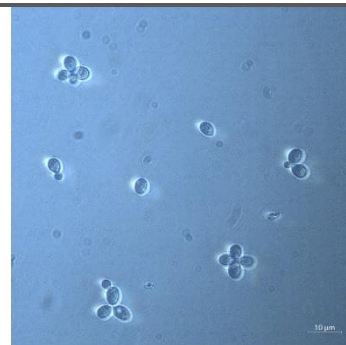
IST948

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	29/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346818	NCBI ITS Accession Number	PQ346860

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

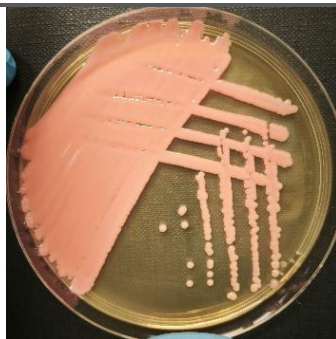
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

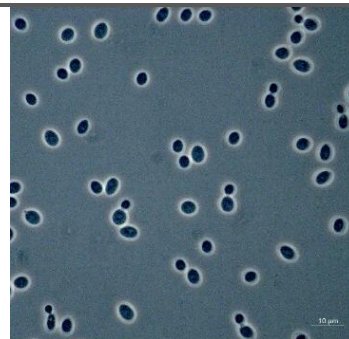
IST951

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	29/04/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346821	NCBI ITS Accession Number	PQ346863

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

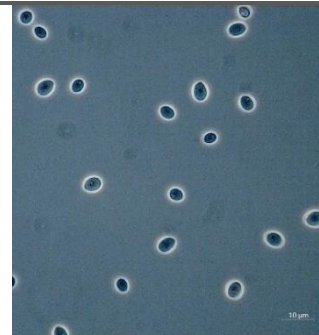
IST952

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	05/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346822	NCBI ITS Accession Number	PQ346864

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

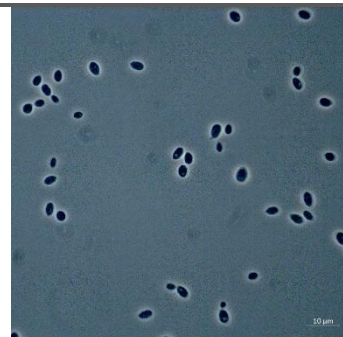
IST953

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	20/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346823	NCBI ITS Accession Number	PQ346865

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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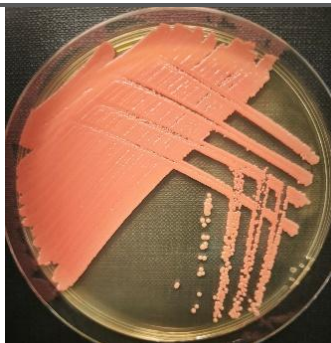
References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

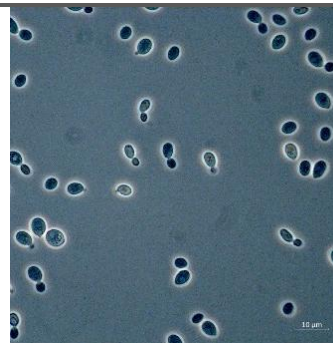
IST955

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	28/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346825	NCBI ITS Accession Number	PQ346867

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

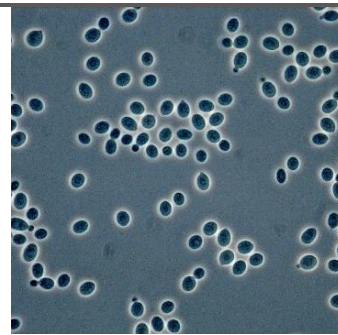
IST957

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	04/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346827	NCBI ITS Accession Number	PQ346869

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

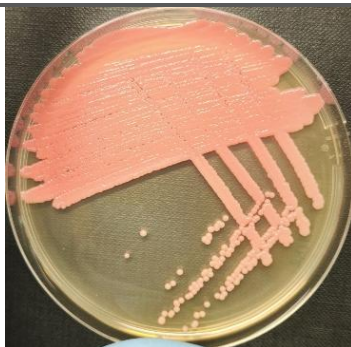
Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

IST958

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodospiridium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	04/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346828	NCBI ITS Accession Number	PQ346870

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

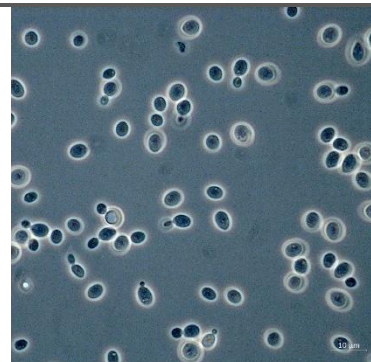
IST963

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s) Natacha Coelho, Inês Costa (Necton)

Source Culture of *Tisochrysis lutea*, flat panel

Collection Date 21/05/2024

Location Necton, Olhão, Faro, Portugal

Latitude & Longitude Unknown

Isolator(s) Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)

Basis for identification Molecular (D1/D2 & ITS)

NCBI 28S Accession Number [PQ380584](#)

NCBI ITS Accession Number [PQ396240](#)

Colony morphology Red to orange, smooth, moist to mucoid

Liquid culture Characteristics Red to orange (in colorless medium)

Preservation Type -80 °C, 15% (v/v) glycerol

Medium YPD

Temperature 30 °C

Biotechnological traits

Production of carotenoids, lipids and biosurfactants.

References

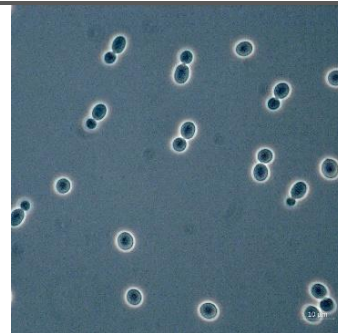
IST966

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	21/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380587	NCBI ITS Accession Number	PQ396243

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

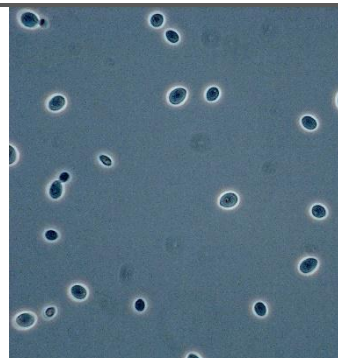
IST967

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	21/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380588	NCBI ITS Accession Number	PQ396244

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

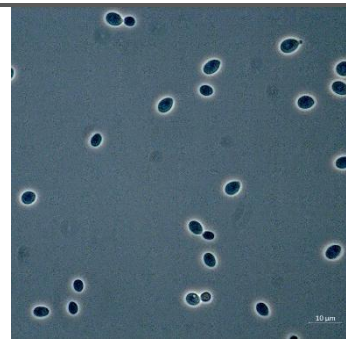
IST972

Rhodotorula sphaerocarpa (S.Y. Newell & Fell) Wang *et al.* 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms

Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	04/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380593	NCBI ITS Accession Number	PQ396249

Colony morphology	Red to orange, smooth, moist to mucoid
Liquid culture Characteristics	Red to orange (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids and biosurfactants.
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References

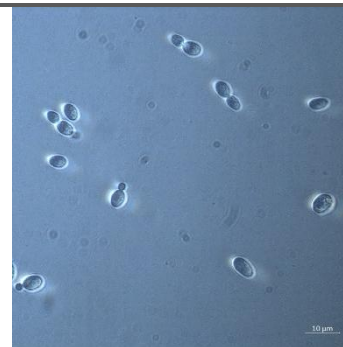
IST974

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , photobioreactor	Collection Date	12/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346830	NCBI ITS Accession Number	PQ346872

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

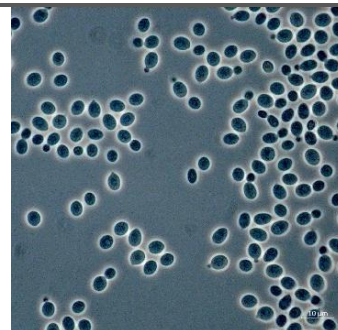
IST975

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	13/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346831	NCBI ITS Accession Number	PQ346873

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

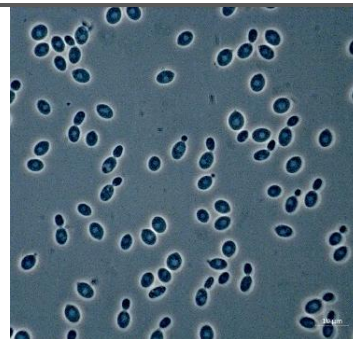
IST976

Rhodotorula diobovata (Newell & Hunter) Wang *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodosporidium diobovatum</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	07/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346832	NCBI ITS Accession Number	PQ346874

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, biosurfactants. Removal of inorganic nitrogen from the environment.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

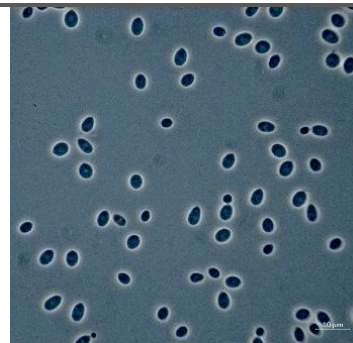
IST978

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

**Culture in YPD
agar plate**



**Microphotograph
1000x**



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Microchloropsis gaditana</i> , photobioreactor	Collection Date	07/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346834	NCBI ITS Accession Number	PQ346876

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

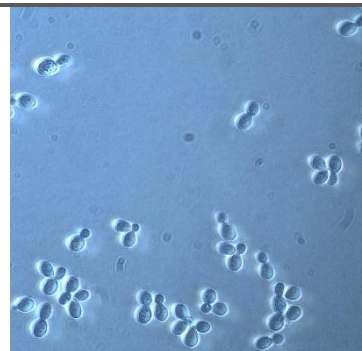
IST986

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota
Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	14/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown
Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346842	NCBI ITS Accession Number	PQ346884
Colony morphology	White to cream		
Liquid culture Characteristics	White (in colorless medium)		
Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		
Biotechnological traits			

References

IST987

Moesziomyces aphidis (Henninger & Windisch) Wang *et al.*, 2016

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Pseudozyma aphidis</i>		
Family	Ustilaginaceae	Class	Ustilaginomycetes
Order	Ustilaginales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , photobioreactor	Collection Date	12/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346843	NCBI ITS Accession Number	PQ346885

Colony morphology	Cream to orange-white, wrinkled.		
Liquid culture Characteristics	Cream to orange-white (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of lipids, biosurfactants (MEL-A). Alkali-tolerant (pH 10).		
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References

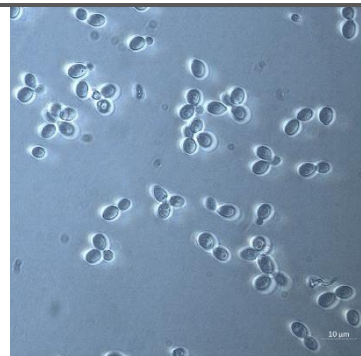
IST988

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flask	Collection Date	13/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346844	NCBI ITS Accession Number	PQ346886

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

References

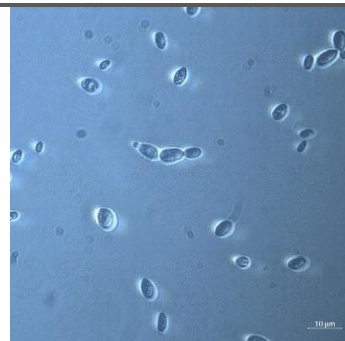
IST989

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , photobioreactor	Collection Date	12/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346845	NCBI ITS Accession Number	PQ346887

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

References

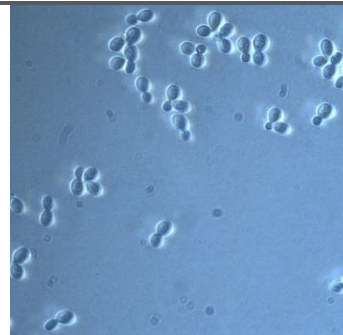
IST997

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	13/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346853	NCBI ITS Accession Number	PQ346895

Colony morphology	White to cream		
Liquid culture Characteristics	White (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

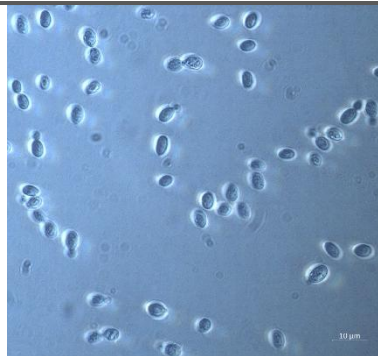
References

IST999

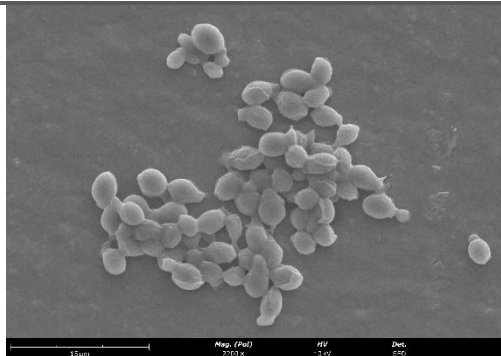
Cystobasidium slooffiae (Novak & Voros-Felkai) Yurkov *et al.*, 2014



Culture in YPD agar plate



Microphotograph 1000x



Scanning electron microphotograph 2200x

Taxon synonyms

Family	Cystobasidiaceae	Class	Cystobasidiomycetes
Order	Cystobasidiales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	26/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346855	NCBI ITS Accession Number	PQ346897

Colony morphology	Light pink, moist to mucoid
Liquid culture Characteristics	Light pink (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits	Production of carotenoids.
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References

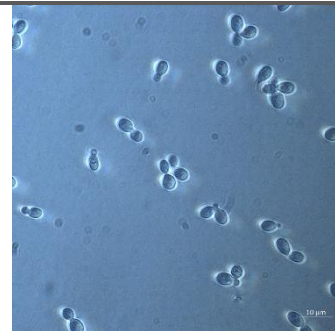
IST1000

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flask	Collection Date	26/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ346856	NCBI ITS Accession Number	PQ346898

Colony morphology	White to cream		
Liquid culture Characteristics	White (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

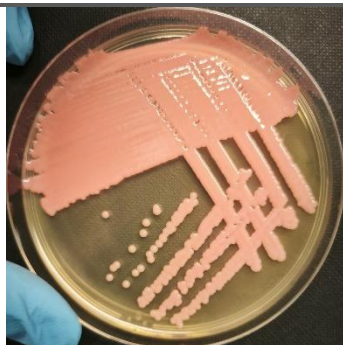
Biotechnological traits

References

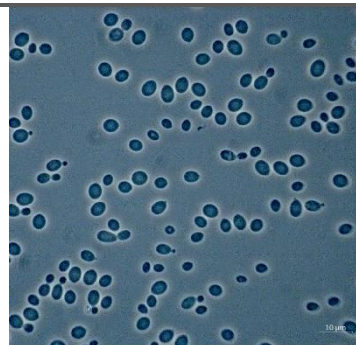
IST1002

Rhodotorula mucilaginosa (A. Jörg.) F. C. Harrison, 1928

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Rhodotorula mucilaginosa</i>		
Family	Sporidiobolaceae	Class	Microbotryomycetes
Order	Sporidiobolales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	26/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380594	NCBI ITS Accession Number	PQ396250

Colony morphology	Coral pink, smooth, moist to mucoid		
Liquid culture Characteristics	Coral pink (in colorless medium)		

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	30 °C		

Biotechnological traits	Production of carotenoids, lipids, exopolysaccharides and biosurfactants.		
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References

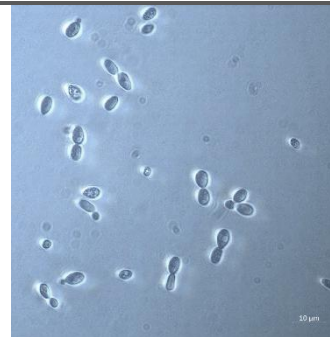
IST1004

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , photobioreactor	Collection Date	27/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380596	NCBI ITS Accession Number	PQ396252

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

References

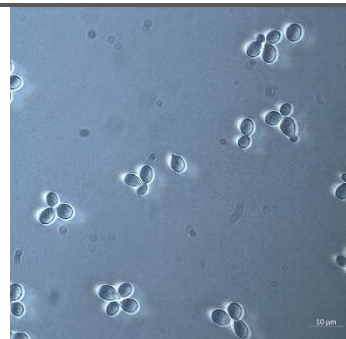
IST1007

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	26/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380598	NCBI ITS Accession Number	PQ396254

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

References

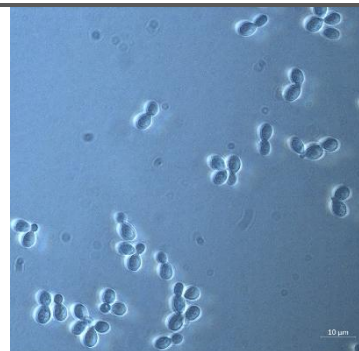
IST1008

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , column	Collection Date	26/06/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380599	NCBI ITS Accession Number	PQ396255

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

References

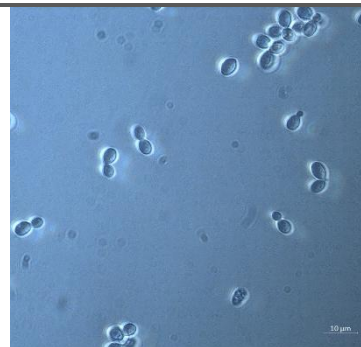
IST1010

Vishniacozyma carnescens (Verona & Luchetti) Liu *et al.*, 2015

Culture in YPD
agar plate



Microphotograph
1000x



Taxon synonyms	<i>Cryptococcus carnescens</i> , <i>Torulopsis carnescens</i>		
Family	Bulleribasidiaceae	Class	Tremellomycetes
Order	Tremellales	Phylum	Basidiomycota

Collector(s)	Natacha Coelho, Inês Costa (Necton)		
Source	Culture of <i>Tisochrysis lutea</i> , flat panel	Collection Date	28/05/2024
Location	Necton, Olhão, Faro, Portugal	Latitude & Longitude	Unknown

Isolator(s)	Madalena Matos, Mónica Fernandes, Isabel Sá-Correia (iBB, IST, ULisboa)		
Basis for identification	Molecular (D1/D2 & ITS)		
NCBI 28S Accession Number	PQ380601	NCBI ITS Accession Number	PQ396257

Colony morphology	White to cream
Liquid culture Characteristics	White (in colorless medium)

Preservation Type	-80 °C, 15% (v/v) glycerol	Medium	YPD
Temperature	22 °C		

Biotechnological traits

References

Literature for IST-Yeasts Culture Collection strains

Matos, M.; Fernandes, M.A.; Costa, I.; Coelho, N.; Santos, T.F.; Rossetto, V.; Varela, J.; Sá-Correia, I. Culturable Yeast Diversity Associated with Industrial Cultures of the Microalga *Microchloropsis gaditana* and Their Ability to Produce Lipids and Biosurfactants. *J. Fungi* **2025**, *11*, 228. <https://doi.org/10.3390/jof11030228>

Index of strains (alphabetical order by species)

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	IST723	17
<i>[Candida] vartiovaarae</i>	IST662	11
<i>Cystobasidium minutum</i>	IST639	4
<i>Cystobasidium slooffiae</i>	IST999	110
<i>Meyerozyma guilliermondii</i>	IST742	28
	IST757	32
	IST760	33
	IST766	34
	IST848	55
	IST849	56
<i>Moesziomyces aphidis</i>	IST922	76
	IST923	77
	IST940	85
	IST941	86
	IST943	87
	IST946	89
	IST987	106
<i>Naganishia diffluens</i>	IST638	3
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	IST650	9
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	IST729	21
	IST736	25
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	IST823	51
	IST829	53
	IST838	54
	IST865	59
	IST878	61
	IST885	63
	IST903	67
	IST910	70
	IST913	72
	IST919	75
	IST927	79
	IST929	80
	IST935	82
	IST958	96
	IST974	101
	IST976	103

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	IST641	6
	IST654	10
	IST675	13
	IST685	15
	IST709	16
	IST725	19
	IST735	24
	IST737	26
	IST739	27
	IST744	29
	IST753	30
	IST754	31
	IST779	36
	IST784	38
	IST785	39
	IST789	41
	IST795	44
	IST808	47
	IST818	50
	IST852	58
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	IST891	66
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	IST967	99
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	IST933	81

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<i>Sporobolomyces salmonicolor</i>	IST644	8
<i>Vishniacozyma carnescens</i>	IST827	52
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	IST988	107
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	IST1007	114
	IST1008	115
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