

## Technical Data Sheet

### Malt Extract Contact Agar – RT

Ordering number: 1.46191.0020

#### General

Malt Extract Agar is used for the identification of yeasts and molds in food, including milk and dairy products, and also in environmental samples. It is particularly recommended for the analysis of beverages in which yeasts are a predominant ingredient.

Ten contact plates each with a diameter of 55 mm are single-bagged in transparent, hydrogen peroxide impermeable sleeves (non-irradiated). The sleeves consist of polypropylene with a barrier of PE-EVOH-PE

The Malt Extract Agar is available as settle and contact plates with the same composition:

- Malt Extract Contact Agar - RT, article number 146191 in 55 mm contact plates
- Malt Extract Agar, article number 146151 in 90 mm settle plates

#### Mode of Action

The low pH of the medium promotes the growth of most yeasts and fungi, while bacterial growth is more or less strongly inhibited. Malt extract has a high content of carbohydrates (90-92 %), but also of nitrogen compounds and vitamins, e.g. riboflavin, pyridoxin, and thiamine. The soymeal peptone content, also rich in carbohydrates, additionally supplies the necessary protein compounds such as peptides and amino acids. This composition facilitates the good growth of yeasts, fungi, and dermatophytes.

#### Typical Composition

Malt Extract	30 g/l
Soytone	3 g/l
Agar	20 g/l

The appearance of the medium is clear and yellowish. The pH value is in the range of 5.4 to 5.8. The medium can be adjusted and/or supplemented according to the performance criteria required.

#### Application and Interpretation

Each plate is provided with a label including a data matrix code for paperless plate identification. The code consists of a two-dimensional 20-digit serial number, which harbors the following information:

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digits 1-3: here code 871 (corresponds to article 146191); digits 4-9: lot number; digits 10- 14: batch specific individual number; digits 15-20: expiration date (YY/MM/DD).

The culture medium is incubated aerobically for at least 2 days, generally however for 7 - 14 days, at 25 ± 1 °C.

The microscopic assessment (1:200- to 1:1000-fold magnification) is an important indication for the characterization of the cultivated yeasts and fungi. The colonization forms (conidia, helical formations, spiked formations) are frequently of essential importance for the characterization of the fungi.

## Storage and Shelf Life

The product can be used for sampling until the expiry date if stored upright, protected from light and properly sealed at +2 °C to +25 °C.

The testing procedures as described on the CoA can be started up to the expiry date printed on the label

## Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

## Quality Control

Control Strains	ATCC #	Inoculum CFU	Incubation	Growth Characteristics
<i>Candida albicans</i>	10231	10-100	3d at 20-25°C	Recovery rate 70-200 %
<i>Saccharomyces cerevisiae</i>	9763	10-100	3d at 20-25°C	Recovery rate 70-200 %
<i>Aspergillus brasiliensis</i>	16404	10-100	3d at 20-25°C	Recovery rate 70-200 %
<i>Penicillium pinophilum</i>	DSM 1960	Dense suspension	4d at 20-25°C	good growth; white dense mycelium, 2-3cm diameter

Please refer to the actual batch related Certificate of Analysis.

## Literature

Galloway, L. D., Burges, R. (1952): Applied Mycology and Bacteriology. Leonard Hill, London.

Merz, W. G., Roberts, G. D. (1995): Detection and recovery of fungi from clinical

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Samson, R.A., Hocking, A.D., Pitt, J.I. and King, A.D. (1992): Modern methods in food mycology. Elsevier. Amsterdam.

Warren N. G. and Hazen, K. C. (1995): Candida, Cryptococcus, and other yeasts of medical importance. In: Manual of Clinical Microbiology. Eds. Murray,

P. R., Baron, J., Faller, M. A., Tenover, F.C. and Yolken, R. A. ASM Press, Washington DC, p. 709-737.

### Ordering Information

Product	Cat. No.	Pack size
Malt Extract Contact Agar - RT	1.46191.0020	20 x 55 mm plates
Malt Extract Agar	1.46151.0020	20 x 90 mm plates
Malt Extract Agar with Chloramphenicol	1.46729.0020	20 x 90 mm plates
Orange Serum Agar	1.46425.0006	6 x 200 ml bottle
<b>ReadyPlate™ DG 18 agar ISO 21527</b>	1.46161.0020	20 x 90 mm plates
<b>ReadyPlate™ 55 m-Green Agar for Membrane Filtration</b>	1.46769.0020	20 x 55 mm plates
<b>ReadyPlate™ 55 KIT m-Green Agar for Membrane Filtration</b>	1.46770.0150	Kit (150 plates & filter)

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