

## Technical Information

### Rice Extract Agar

**Product Code: DM 2026**

**Application:** - Rice Extract Agar is recommended for identification of *Candida albicans* by means of its chlamyospore production.

#### Composition\*\*

Ingredients	Gms / Litre
White rice extract	20.000
Agar	20.000
Final pH ( at 25°C)	7.1±0.2

\*\*Formula adjusted, standardized to suit performance parameters

#### Principle & Interpretation

Rice Extract Agar is used for the identification and promotion of chlamyospores formation by *Candida albicans* and *C. stellatoidea*. Taschdjian developed this medium for in the identification of *Candida* species producing chlamyospores, for differentiating positive species from other *Candida* species<sup>(3,4)</sup>. It has been shown by Kelly and Funigiello<sup>(1)</sup> and Waker and Huppert<sup>(2)</sup> that the addition of tween 80 (Polysorbate 80) to Rice Extract Agar enhances the formation of chlamyospores by *C. albicans*. However, tween 80 also favored chlamyospores formation in other *Candida* species, therefore its impose the need of the other media for species identification (5). Rice extract provides the nutrients required for the growth of *Candida* species. The addition of polysorbate 80 stimulates chlamyospore formation due to its content of oleic acids. Chlamyospore production is also favored by the use of a lower concentration, 13 g/L of medium, although the medium can be prepared at a higher concentration (25 g/L). Rice Extract Agar with 2% dextrose may be used to promote chromogenesis (pigment formation) and, therefore, is helpful in distinguishing *Trichophyton rubrum* from *Trichophyton mentagrophytes*. Inoculate by cutting through the surfaces of the agar with the inoculation wire. Incubate the inoculated medium at 24-25°C for 18-72 hours. Examine for chlamyospores production microscopically using approximately 100 X magnifications and by focusing upon the line of inoculation.

#### Methodology

Suspend 40 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Add 10 ml Polysorbate 80. Sterilize by autoclaving at 15 lbs pressure (12 1°C) for 15 minutes. Mix well and pour into sterile Petri plates.

#### Quality Control

##### Physical Appearance

White to light yellow homogeneous free flowing powder

##### Gelling

Firm, comparable with 2.0% agar gel.

##### Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates

##### Reaction

Reaction of 4.0% w/v aqueous solution at 25°C. pH : 7.1±0.2

**pH Range** 6.90-7.30



Dehydrated Culture Media  
Bases / Media Supplements

### Cultural Response/Characteristics

DM2026: Cultural characteristics observed after an incubation at 24-25°C for 18-72 hours.

Cultural Response	Growth	Chlamydo spores
<i>Candida albicans</i> ATCC 10231	Good-Luxuriant	Positive
<i>Candida tropicalis</i> ATCC 1369	Good-Luxuriant	Negative

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8<sup>0</sup> in sealable plastic bags for 2-5 days.

## Further Reading

1. Kelly J. P. and Funigiello F., 1959, J. Lab. And Clin. Med., 53:807
2. Walker L. and Huppert M., 1960, Tech. Bull. Reg. Of Med. Tech., 30:10
3. Taschdjian C. L., 1957, Mycologia 49:332.
4. Taschdjian C. L., 1953, Mycologia 45:474.
5. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1. Williams & Wilkins, Baltimore, M.d.

## Disclaimer :

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