

Technical Data

Rice Extract Agar

M1026

Rice Extract Agar is recommended for identification of *Candida albicans* by means of its chlamydospore 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	

Directions

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 (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Principle And Interpretation

Rice Extract Agar is used for the identification and promotion of chlamydospores formation by Candida albicans and С. stellatoides . Taschdjian developed this medium to aid in the identification of Candida species producing chlamydospores, the differentiating positive species from other Candida species (3, 4). It has been shown by Kelly and Funigiello (1) and Waker and Huppert (2) that the addition of tween 80 (Polysorbate 80) to Rice Extract Agar enhances the formation of chlamydospores by *C. albicans*. However, tween 80 also favored chlamydospores formation in other *Candida* species, therefore its use necessitated employing further media for species identification (5). Rice extract provides the nutrients required for the growth of Candida species. The addition of polysorbate 80 stimulates chlamydospore formation due to its content of oleic acids. Chlamydospore 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 chlamydospores production microscopically using approximately 100 X magnifications and by focusing upon the line of inoculation.

Quality Control

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

pН

6.90-7.30

Cultural Response

M1026: Cultural characteristics observed after an incubation at 24-25°C for 18-72 hours.

Chlamydospores

Organism Growth

Cultural Response

Candida albicans ATCC good-luxuriant positive 10231

Candida tropicalis ATCC good-luxuriant negative *1369*

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

- 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.

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HiMedia Laboratories Pvt. Ltd. A-516,Swastik Disha Business Park,Via Vadhani Ind. Est., LBS Marg, Mumbai-400086, India. Customer care No.: 022-6147 1919 Email: techhelp@himedialabs.com