

TM 1600 – RICE EXTRACT AGAR

INTENDED USE

For differentiation of yeasts by means of their typical chlamydospores and on the basis of morphological criteria.

PRODUCT SUMMARY AND EXPLANATION

Rice Extract Agar was developed by Taschdjian to aid in the identification of chlamydospore producing species of *Candida*. This medium can be used for culturing yeasts and differentiating them on basis of micromorphological characteristics particularly for differentiation of *C. albicans* and *C. stellatoidea* on basis of formation of chlamydospores. Rieth had demonstrated that this medium can be used for mycological diagnostic procedures.

Candida colony can be inoculated by streaking (very thinly) on the surface of rice extract agar in 3-4 broad zig zag lines and covered with cover glass. This oxygen deficient condition favours chlamydospore formation and pseudomycelial growth of yeasts. If the specimen is heavily infected with *Candida* it can be streaked directly on agar. On incubation for approximately 96 hours at 22-25°C culture can be directly examined under microscope through cover glass.

COMPOSITION

Ingredients	Gms / Ltr
Rice extract, concentrated	0.700
Agar	14.300

PRINCIPLE

Rice extract in the medium serves as sole nutrient source. Agar is used as a solidifying agent.

INSTRUCTION FOR USE

- Dissolve 15.0 grams in 1000 ml distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Mix well and pour into sterile Petri plates to give a thin layer of medium (1-2 mm).

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Off-white to light yellow coloured homogeneous free flowing powder.
Appearance of prepared medium	: White-light yellow coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C)	: 5.8 ± 0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Pseudomycelium	Chlamydospores	Incubation Temperature	Incubation Period
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<i>Candida albicans</i>	10231	10-100	Good-luxuriant	>=50%	Positive reaction	Positive reaction	22-25°C	96 Hours
<i>Candida tropicalis</i>	1369	10-100	Good-luxuriant	>=50%	Positive reaction	Negative reaction	22-25°C	96 Hours
<i>Saccharomyces cerevisiae</i>	7752	10-100	Poor-fair	>=50%	Negative reaction	Negative reaction	22-25°C	96 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Taschdjian. 1953. Mycologia 45 : 474.
2. Reith, H., Hansen, P. El-Fikl, A.Y., u ITO, K. Hefedifferenzierung auf Reisagar-Bill. Pharm. Res., Inst., (Osaka) 19; 13- (1959).
3. Ajello, L., Georg, L.K., Kaplan, W.A., Kaufman, L. : Laboratory Manual for medical Mycology Communicable Disease Center, Atlanta, Georgia, USA, 1966.

 Good Manufacturing Practices Certified	 Best Before	 Quantity	 Catalogue Number	 Manufacturer
 Temperature Unit	 Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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