



Dixon's Agar (Twin Pack)

RDM-DXA-01

Principle

Malassezia is lipophilic yeast commence in areas rich in sebaceous glands of the human skin and other warm-blooded animals. Dixons's agar is consisting of malt extract, peptone, bile desiccated, tween 40 and glycerol mono-oleate. Malt extract provide essential nutrients due to their richness and nutrient balance especially for the cultivation of fastidious microorganisms. Peptone as a source of carbon, nitrogen, vitamins and minerals. The low and acidic pH, favors growth of yeast and molds and inhibits contaminating bacteria. Since used for the isolation, cultivation and maintenance of yeast and molds. In vitro the growth of *M. furfur* is stimulated by natural oils or other fatty substances. Tween 40 and monooleate complex is a source of fatty acids required for the growth of *M. furfur*.

Use: Recommended for primary isolation and cultivation of *Malassezia furfur*.

Contents*

Ingredients

Part A

	Gram/Litre
Malt Extract	36.000
Peptone	36.000
Bile Desiccated	20.000
Agar	14.500

Part B

Tween 40	10.000
Glycerol Mono-Oleate	5.000
pH (at 27°C)	6.0 ±0.2

*Formula adjusted for optimum performance and parameters

Directions:

Dissolve 106.5 grams of part A in 1000 ml distilled water containing 15ml of part B, mix well and boil to dissolve the medium completely, sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 42-45 °C and distribute aseptically and inoculate test sample aseptically.

Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Part A: Beige colored free flowing, homogeneous powder Part B: Colorless clear dense liquid
Reaction of 10.6% of part A and 1.5% of part B solution	6.0 ±0.2 at 25 °C
pH	5.80- 6.20
Gelling	Firm comparable with 1.45% agar gel
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Organism	Inoculum	Growth	Recovery	Incubation Temperature	Incubation period
<i>Candida albicans</i> (ATCC10231)	50-100	Luxurious	70-80%	33-37 °C	18-48 h
<i>Malassezia furfur</i> (ATCC 14521)	50-100	Luxurious	70-80%	33-37 °C	18-48 h

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Murray PR, Baren EJ, Jorgensen JH, Pfaller MA, Tenover FC, Tenover FC (editors) 2003, Manual of clinical Microbiology, 8th Ed. ASM, Washington, D.C.
4. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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