OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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TECHNICAL DATA SHEET

MY-40 Agar

Principle

MY 40 agar is generally used for detection and isolation of spoilage forming osmophilic yeasts like *Saccharomyces* species (*Zygosaccharomyces rouxii, Saccharomyces mellis* etc.) in high sugar content foods like honey, jam, candy, fruit juice concentrates etc. Media is composed of malt extract, yeast extract, sucrose and agar. Malt extract and yeast extract provides carbon, protein and nutrient sources required, in addition to that it provides acidic environment favorable for the growth of yeasts. Sucrose concentration is 40%, that provides nutritional requirements. Agar is a solidifying agent.

Use: For detection and isolation of osmophilic microorganisms from food samples.

Contents*

Ingredients	Gram/Litre
Malt extract	20.000
Yeast extract	5.000
Sucrose	400.000
Agar	20.000

*** Formula adjusted for optimum performance and parameters**

Directions: Dissolve 44.5 grams in 100 ml distilled water. Heat to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 min, cool it to 42-45°C. Distribute aseptically in desired and allow to solidify. Ensure complete solidification and inoculate test sample aseptically.

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.

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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	**Light beige colored free flowing, homogeneous powder**
Gelling	**Firm comparable with 2.0% agar gel**
Color and clarity of ready medium	**Light to medium amber colored, opalescent gel**
Negative control	**Performed using sterile distilled water**

Different Microbial Response

Prepare media as per the label directions. Inoculate and incubate the plates at desired temperature and period. The optimum incubation for Yeasts and molds is 25 ± 2°C for 5-7 days.

Organism	ATCC	Inoculum (CFU)	Growth
Zygosaccharomyces rouxii	28253	50-100	Luxuriant
Aspergillus brasiliensis	16404	50-100	Luxuriant

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

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. **Morton, Smith and Leberman, (1951), Am. J. Syphilis Gonorrh. Veneral Diseases, 35: 361.**
3. **Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) *Manual of Clinical Microbiology*, 11th Edition. Vol. 1.**

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