PRODUCT SPECIFICATION SHEET

Oat Meal Agar (DM1817)

Intended Use
Oat Meal Agar (DM1817) is recommended for cultivation of fungi, particularly for macrospore formation.

Product Summary and Explanation
Fungi are multicellular heterotropic members of the plant kingdom that lack roots and stems and are referred to as thallophytes. They are more complex in their morphology and larger than the bacteria. In the identification of various fungi, the form of sporulation and the type of spore are important criteria. Fungi are extremely successful organisms, as evidenced by their ubiquity in nature. Of the estimated 250,000 species, fewer than 150 are known as primary pathogens of humans.[1] The morphologic differences in their reproductive structure is the primary criteria for identification and classification of fungi. Fungi reproduce sexually or asexually or by both means. Sexual reproduction is associated with the formation of specialized structures that facilitate fertilization and nuclear fission, resulting in the production of specialized spores. Large, multicelled spores are called macroconidia, macroaleuriospores or macrospores and are produced by aerial sporulation.[2] Imperfect fungi are those in which no sexual phase has been demonstrated. The spores are produced directly or from the mycelium. Most of the fungi of medical importance belong to the imperfect group. The detection of fungi is a great concern in the pharmaceutical, food and cosmetic industry.

Principles of the Procedure
Oat meal Agar contains oat meal which is a source of nitrogen, carbon, protein and nutrients necessary for the growth of fungi.

Formula / Liter

Ingredients	Gms / Liter
Oat Meal	60.00
Agar	12.50
Final pH: 7.2 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

Precautions
1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions
1. Suspend 72.5 grams of the medium in one liter of distilled water.
2. Heat to boiling to dissolve the medium completely.
3. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.
4. Mix well and pour into sterile petri plates.

Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous soft lumps which can be easily broken down to powder
Prepared Medium	Light amber coloured slightly opalescent gel forms in Petri plates
Reaction of 7.25% solution	pH 7.2 ± 0.2 at 25°C
Gel Strength	Firm,comparable with 1.25% Agar gel.

Expected Cultural Response: Cultural characteristics observed after an incubation at 25-30°C for 18-48 hours.

Sr.	Organisms	Results to be achieved

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No.		Growth
1.	*Aspergillus brasiliensis ATCC 16404*	good-luxuriant
2.	*Candida albicans ATCC 10231*	good-luxuriant
3.	*Saccharomyces cerevisiae ATCC 9763*	good-luxuriant

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure
Refer to appropriate references for standard test procedures.

Results
Refer to appropriate references and standard test procedures for interpretation of results.

Storage
Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

Expiration
Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure
1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

Packaging
Product Name : Oat Meal Agar
Product Code : DM1817
Available Pack sizes : 500gm

References

1. Murray P. R., Baron E. J., Jorgensen J. H., Pfaller M. A., Yolken R. H., (Eds.), 8th Ed., 2003, Manual of Clinical Microbiology, ASM, Washington, D.C.
2. Koneman E. W., Allen S. D., Janda W. M., Schreckenberger P. C. and Winn W. C. Jr., 1997, Colour Atlas and Textbook of Diagnostic Microbiology, 5th Ed., Lippincott- Raven Publishers, Philadelphia, Pa.

Further Information
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