



PRODUCT SPECIFICATION SHEET

Sabouraud Maltose Broth (DM235)

Intended Use

Sabouraud Maltose Broth (DM235) is recommended for propagation of yeast and mould, especially parasitic fungi concerned with skin and scalp lesions.

Product Summary and Explanation

Fungi were among the first microorganisms recognized because some of the fruiting structures, such as the mushrooms, are large enough to be seen without a microscope. Fungi can be grouped simply on the basis of morphology as either yeasts or moulds.⁽¹⁾ Sabouraud Maltose Broth was formulated by Sabouraud⁽²⁾ and is used for the isolation and differentiation of yeast and moulds.^(3, 4, 5) Sabouraud Maltose Broth is a modification of Sabouraud Dextrose Broth with maltose substituted for the dextrose. It is a selective medium due to the acid pH and is used for the detection of fungi.

Principles of the Procedure

Sabouraud Maltose Broth contains mycological peptone which provides nitrogenous compounds. Maltose provides an energy source for the growth of microorganisms. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens. The acid reaction of the final medium is inhibitory to a large number of bacteria making it particularly useful for cultivating fungi and aciduric microorganisms.

Formula / Liter

Ingredients	Gms / Liter
Mycological, peptone	10.00
Maltose	40.00
Final pH: 5.6 ± 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 50 grams of the medium in one liter of distilled water.
2. Heat to boiling, to dissolve the medium completely.
3. Mix well and distribute into final containers.
4. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.

Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light amber coloured clear solution in tubes
Reaction of 3.42% Solution	pH : 5.6 ± 0.2 at 25°C
Gel Strength	Not Applicable

Expected Cultural Response: Cultural characteristics observed after an incubation at 25 - 30°C for 48-72 hours. (Incubate Trichophyton species for upto 7 days)

Sr. No.	Organisms	Results to be achieved	
		Inoculum	Growth





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		(CFU)	
1.	<i>Aspergillus brasiliensis</i> ATCC 16404	50 -100	good-luxuriant
2.	<i>Candida albicans</i> ATCC 10231	50 -100	good-luxuriant
3.	<i>Escherichia coli</i> ATCC 25922	50 -100	good-luxuriant (inhibited on media with low pH)
4.	<i>Saccharomyces cerevisiae</i> ATCC 9763	50 -100	good-luxuriant
5.	<i>Trichophyton rubrum</i> ATCC 28191	50 -100	good-luxuriant
6.	<i>Lactobacillus casei</i> ATCC 9595	50 -100	good-luxuriant

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

Test Procedure

1. For clinical specimens

Refer to laboratory procedures for details on specimen collection and handling.

Refer to appropriate standard references for details on testing protocol.

2. For cosmetic, food or environmental monitoring samples

Refer to appropriate standard methods for details on sample collection and preparation according to sample type and geographic location.

Refer to appropriate standard references for details on testing methods.

3. For pharmaceutical samples

Refer to USP General Chapters for details on sample collection and preparation for testing of non sterile products.

Refer to USP General Chapters <61> and <62> for details on examination of nonsterile products.

4. Incubate at 25-30°C for 48-72 hours.

Results

Refer to appropriate references and 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. Some fungi may be inhibited by the acidic pH of the medium.
2. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
3. Consult appropriate texts for detailed information and recommended procedures.

Packaging

Product Name : Sabouraud Maltose Broth

Product Code : DM235

Available Pack sizes : 500gm

References

1. Murray P. R., Baron J. H., Pfaller M. A., Tenover J. C. and Tenover F. C., (Ed.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.
2. Sabouraud R., 1892, Ann. Dermatol. Syphil. 3 : 1061.
3. Davidson, Dowding and Buller. 1932. Can. J. Res. 6:1.





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4. Davidson and Dowding, 1932, Arch. Dermatol. Syphilol. 26:660.
5. Frank L. S., 1932, Arch. Dermatol. Syphilol., 26: 457

Further Information

For further information please contact your local MICROMASTER Representative.



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