



PRODUCT SPECIFICATION SHEET

Sabouraud Glucose Agar Base w/Antibiotics (DM1385)

Intended Use

Sabouraud Glucose Agar Base w/Antibiotics (DM1385) is recommended for selective cultivation of yeast and mould.

Product Summary and Explanation

Sabouraud Dextrose Agar is a general-purpose medium devised by Sabouraud⁽¹⁾ for the cultivation of dermatophytes. The low pH of approximately 5.6 is favourable for the growth of fungi, especially dermatophytes, and slightly inhibitory to contaminating bacteria in clinical specimens.⁽²⁾ The addition of antibiotics is a modification designed to increase bacterial inhibition. Sabouraud Glucose Agar w/ Antibiotics is formulated by Carliers⁽³⁾ and is a modification of Sabouraud Dextrose Agar formulated by Sabouraud for selective cultivation of yeasts and moulds. The medium is used with Tetracycline for the isolation of pathogenic fungi from materials containing large numbers of fungi or bacteria.

Principles of the Procedure

Sabouraud Glucose Agar Base w/Antibiotics contains casein enzymic hydrolysate and peptic digest of animal tissue which provides the nitrogen, amino acids and carbon. Glucose is an energy and carbon source. Tetracycline inhibits a wide large of gram positive and gram negative bacteria making the medium selective for fungi. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimen.

Formula / Liter

Ingredients	Gms / Liter
Casein enzymic hydrolysate	5.00
Peptic digest of animal tissue	5.00
Glucose	40.00
Agar	15.00
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.
3. Some pathogenic fungi may produce infective spores, which are easily dispersed in air, so examination should be carried out in safety cabinet.

Directions

1. Suspend 65 grams of the medium in 995ml 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. Aseptically add rehydrated contents of 1 vial of Tetracycline Selective Supplement (MS123).
5. Mix well and pour into sterile Petri plates.

Quality Control Specifications

Dehydrated Appearance	Cream to yellow homogeneous free flowing powder
Prepared Medium	Light amber coloured clear to slightly opalescent gel forms in Petri plates
Reaction of 6.5% solution	pH : 5.6 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel



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Expected Cultural Response: Cultural characteristics observed after an incubation at 20-25°C for 48-72 hours with added tetracycline supplement (Incubate for 7 days for Trichophyton species).

Sr. No.	Organisms	Results to be achieved	
		Inoculum (CFU)	Growth
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	$\geq 10^3$	inhibited
4.	<i>Lactobacillus casei</i> ATCC 334	$\geq 10^3$	inhibited
5.	<i>Saccharomyces cerevisiae</i> ATCC 9763	50 -100	good-luxuriant
6.	<i>Trichophyton rubrum</i> ATCC 28191	50 -100	good-luxuriant
7.	<i>Escherichia coli</i> ATCC 8739	$\geq 10^3$	inhibited
8.	<i>Escherichia coli</i> NCTC 9002	$\geq 10^3$	inhibited

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 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 : Sabouraud Glucose Agar Base w/Antibiotics

Product Code : DM1385

Available Pack sizes : 500gm

References

1. Sabouraud K 1892, Ann Dermatol. Syphilol, 3 : 1061.
2. Murray, P. R 2005, In Manual of Clinical Microbiology, 7th ed., ASM, Washington, D.C.
3. Carlier G.I.M 1948, Brit J. Derm Syph. 60 61.

Further Information

For further information please contact your local MICROMASTER Representative.





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