



## PRODUCT SPECIFICATION SHEET

### Sabouraud Cycloheximide Chloramphenicol Agar (DM605)

#### Intended Use

Sabouraud Cycloheximide Chloramphenicol Agar (DM605) is recommended for selective isolation and cultivation of pathogenic fungi.

#### Product Summary and Explanation

Pathogenic fungi are fungi that cause disease in humans or other organisms. Sabouraud Dextrose Agar was originally formulated by Sabouraud<sup>(1)</sup> and further modified by Emmons<sup>(2)</sup> by reducing dextrose content and adjusting the pH close to neutral.

#### Principles of the Procedure

Sabouraud Cycloheximide Chloramphenicol Agar contains peptic digest of animal tissue which acts as a source of nitrogenous growth factors. Dextrose is an energy source for the growth of microorganisms. The media can be rendered selective for fungi by antibiotics such as Chloramphenicol<sup>(4)</sup> and Cycloheximide,<sup>(5)</sup> which inhibit some bacteria as well as some saprophytic and pathogenic fungi. This medium inhibits fungi like *Cryptococcus neoformans*, *Aspergillus*, *Nocardia*, certain *Candida* species but allow the dermatophytes to grow well.

#### Formula / Liter

Ingredients	Gms / Liter
Peptic digest of animal tissue	10.00
Dextrose	20.00
Chloramphenicol	0.04
Cycloheximide	0.50
Agar	15.00
Final pH: 6.8 ± 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. Cycloheximide is very toxic. Avoid skin contact or aerosol formation and inhalation.
4. 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 45.54 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.





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### 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 4.5% Solution	pH : 6.8 ± 0.2 at 25°C
Gel Strength	Firm, comparable with 1.5% Agar gel

**Expected Cultural Response:** Cultural characteristics observed after an incubation at 25-30°C for 2-3 weeks.

Sr. No.	Organisms	Results to be achieved		
		Inoculum (CFU)	Growth	Recovery
1.	<i>Aspergillus brasiliensis</i> ATCC 16404	50-100	none-poor	--
2.	<i>Candida albicans</i> ATCC 10231	50-100	poor-fair	<=20%
3.	<i>Escherichia coli</i> ATCC 25922	>=10 <sup>3</sup>	inhibited	0%
4.	<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	none-poor	<=20%
5.	<i>Trichophyton mentagrophytes</i> ATCC 9533	50-100	good-luxuriant	--
6.	<i>Trichophyton rubrum</i> ATCC 28191	50-100	good-luxuriant	--

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

### Test Procedure

Refer appropriate references for specific test procedures.

### Results

Refer appropriate references and test procedures for interpretation of results.

### Storage

Store the sealed bottle containing the dehydrated medium at 10 - 8°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 Cycloheximide Chloramphenicol Agar

Product Code : DM605

Available Pack sizes : 100gm





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### References

1. Sabouraud R., 1892, Ann. Dermatol. Syphilol., 3:1061.
2. Emmons C., Binford C., Uty J. and Kwon-Chung, 1970, Medical Mycology, 2nd ed., Philadelphia: Lea and Febiger.
3. Diagnostic Procedures, 1963, 4th ed., APHA
4. Ajello L., 1957, J. Chron. Dis., 5:545.,,
5. MacFaddin J. F., 1985, Media For Isolation-Cultivation Identification - Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.

### Further Information

For further information please contact your local MICROMASTER Representative.



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