

# Sabouraud Dextrose Agar

REF.	Pack size
1412 001	100 gm
1412 002	500 am

### Intended Use

An acidic medium for the cultivation and isolation of dermatophytes. other fungi, yeasts and aciduric bacteria from clinical and non-clinical samples.

### Background

Sabouraud Dextrose Agar was formulated by Sabouraud in 1892 for culturing dermatophytes. The pH is adjusted to approximately 5.6 in order to enhance the growth of fungi, and to slightly inhibit bacterial growth in clinical specimens. This medium is recommended for mold and yeast counts by the Association of Official Analytical Chemists.

### Principle

Tryptone and peptone provide nitrogenous compounds,carbon and other growth factors.Dextrose is the carbohydrate source . The low PH is favorable for the growth of Fungi, especially dermatophytes and is slightly inhibitory to contaminating bacteria. Various antibiotics can be added to this medium for bacterial inhibition and to make it selective for pathogenic fungi.

Components	gm/Liter	
Peptone	5.0	
Tryptone	5.0	
Déxtrose	40.0	
Agar	15.0	

Final pH ( at 25°C) 5.6 ±0.2

## Preparation, Storage and Stability

Store the dehydrated medium at 10-30°C and use before the expiry date on the label.Store the prepared medium at 2-8°C After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

### Procedure

- 1. Suspend 65 grams of the powder in one liter of distilled water. Mix well
- 2. Heat with frequent agitation to dissolve the powder completely.
- 3. Sterilize by autoclaving at 121°C for 15 minutes.
- 4. Cool to 45-50°C and pour into sterile petri plates.

# SYMBOLS IN PRODUCT LABELLING

Authorised Representative	R	Use by/Expiration Date
For in-vitro diagnostic use	∕₽	CAUTION. Consult instructions
Batch Code/Lot number		for use
Catalogue Number		Manufactured by
Consult instructions for use	X	(Xi) - Irritant
Temperature Limitation		
	Authorised Representative For in-vitro diagnostic use Batch Code/Lot number Catalogue Number Consult instructions for use Temperature Limitation	Authorised Representative For in-vitro diagnostic use Alach Code/Lot number Catalogue Number Consult instructions for use Temperature Limitation

# **Quality Control**

### Appearance

1-Dehydrated Appearance	: yellow homogeneous free flowing powder
2-Prepared Appearance	: Light amber coloured clear to slightly opalescent gel
3-Cultural Response	: after 48-72 hours at 30± 2°C
Organisms (ATCC) Aspergillus niger Candida albicans E.coli Saccharomyces cerevisiae Lactobacillus casei	<b>Growth</b> Good Good Fair to Good Good Good

#### Interpretation of the results

Identification of fungi is performed by observing various aspects of colony morphology, characteristic microscopic structures, rate of growth, media which supports the growth, and source of specimen. Yeasts are identified by various biochemical tests.

### Precautions

1- Some of the pathogenic fungi may produce infective spores, which can be easily dispersed in the laboratory. Examine in a protective cabinet.

2-When used for selective isolation , antimicrobials like Chloramphenicol may inhibit some pathogenic fungi. However, the mycelial phase of some species is not inhibited by these antibiotics when incubated at 30± 2°Ċ.

### Bibliography

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