

## Sabouraud Dextrose Agar with Soya Lecithin and Polysorbate 80

### Intended Use

Sabouraud Dextrose Agar with Soya Lecithin and Polysorbate 80 is used for the cultivation of Yeasts, Moulds and Aciduric bacteria.

### Summary

Sabouraud Dextrose Agar with Soya Lecithin and Polysorbate 80 is the modification of formulation described by Sabouraud for determining efficiency of sterilization of container etc. with respect to yeast moulds and aciduric bacteria. Collection of samples from areas before and after the treatment with disinfectant evaluates cleaning procedures in environmental sanitation.

### Principle

Mycological peptone provides nitrogenous compounds. Dextrose provides an energy source. The low pH favours fungal growth and inhibits contaminating bacteria from clinical specimens. Lecithin and polysorbate 80 are neutralizers reported to inactivate residual disinfectants from where the sample is collected. Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene formalin, and with lecithin neutralizes ethanol.

### Formula\*

Ingredients	g/L
Dextrose	40.0
Mycological Peptone	10.0
Lecithin	0.7
Polysorbate 80	5.0
Agar	15.0
Final pH (at 25°C)	5.6 ± 0.2

\*Adjusted to suit performance parameters.

### Storage and Stability

Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

### Specimen Collection and Handling

Ensure that all samples are properly labelled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

### Directions

1. Suspend 70.70 g of the powder in 1000 mL purified / distilled water.
2. Heat to boiling to dissolve the powder completely.
3. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.
4. Cool the medium to approximately 45°C-50°C mix well and pour into sterile petridishes.

### Quality Control

**Dehydrated Appearance:** Cream to yellow coloured, homogeneous, coarse free flowing powder.

**Prepared Appearance:** Light amber coloured, clear to slightly opalescent gel forms in petridishes.

**Cultural Response:** Cultural characteristics observed after an incubation of 48-72 hours at 30°C.

<b>Organism (ATCC)</b>	<b>Growth</b>
<i>Candida albicans</i> 3147 (10231)	Good
<i>Aspergillus brasiliensis</i> WLRI 034(120) (16404)	Good
<i>Lactobacillus casei</i> (9595)	Good
<i>Saccharomyces cerevisiae</i> NRRL Y-567 (9763)	Good
<i>Escherichia coli</i> (25922)	Good
<i>Trichophyton rubrum</i> (28191)	Good

### Interpretation of Results

The presence and number of fungi is determined by the appearance of colonies on the agar surface.

### Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

### Precautions / Limitations

Some pathogenic fungi may produce infective spores which are easily dispersed in air, so examination should be carried out in safety cabinet.

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### Reference

1. Sabouraud K., 1892, Ann. Dermatol. Syphilol, 3:1061.
2. Murray PR, Baren EJ, Jorgensen JH, Pfaller MA, Tenover FC, Tenover MC (editors) 2003, Manual of clinical Microbiology, 8th ed., ASM, Washington, D.C.
3. Brummer; 1976 appl Environ. Microbiol 32:80.
4. Favero (Claim); 1967, Biological Contamination Control Committee, a state of the art report., Am Assoc. for contamination control.
5. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

<b>Cat No.</b>	<b>Product description</b>	<b>Pack Size</b>
201190070500	Dehydrated Culture Media	500 g

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

---