



SD Agar

M1371

SD Agar is used for the growth of yeasts for molecular biology purposes.

Composition**

Ingredients	Gms / Litre
Ammonium sulphate	5.000
Dextrose	20.000
Biotin	0.00002
Calcium pantothenate	0.002
Folic acid	0.000002
Inositol	0.010
Niacin	0.0004
p-Amino benzoic acid (PABA)	0.0002
Pyridoxine hydrochloride	0.0004
Riboflavin	0.0002
Thiamine hydrochloride	0.0004
Boric acid	0.0005
Copper sulphate	0.00004
Potassium iodide	0.0001
Ferric chloride	0.0002
Manganese sulphate	0.0004
Sodium molybdate	0.0002
Zinc sulphate	0.0004
Potassium dihydrogen phosphate	0.850
Dipotassium hydrogen phosphate	0.150
Magnesium sulphate	0.500
Sodium chloride	0.100
Calcium chloride	0.100
Agar	20.000
Final pH (at 25°C)	6.9±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 46.71 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

This medium is formulated as per Wickerham (2) for studying colonial and cellular morphology of yeasts. Dextrose provides on energy source, while the salts serve as a source of nutrition for metabolic reactions.

Quality Control

Appearance

Cream to beige homogeneous free flowing powder

Gelling

Firm, comparable with 2.0% agar gel.

Colour and Clarity

Light amber coloured , opalescent gel forms in precipitate.

Reaction

Reaction of 4.6% w/v aqueous solution at 25°C. pH 6.9 ± 0.2 pH : 6.9±0.2

pH

6.70-7.10

Cultural Response

M1371: Cultural characteristics observed after an incubation at 25-30°C for 48 - 72 hours.

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
<i>Candida albicans</i> ATCC 10231	50-100	luxuriant	>=70%
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	luxuriant	>=70%

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2-8 °C. Use before expiry date on label.

Reference

1. Sherman, F., 1991, Meths. Enzymol. 194:3
2. Wickerham, 1951, U.S. Dept. Agri. Tech. Bull. No. 1029.

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