

CM 21582 - SD AGAR

INTENDED USE

For growth of yeasts for molecular biology purposes.

PRODUCT SUMMARY AND EXPLANATION

This medium is formulated as per Wickerham for studying colonial and cellular morphology of yeasts.

COMPOSITION

Ingredients	Gms / Ltr
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

PRINCIPLE

Dextrose provides an energy source, while the salts serve as a source of nutrition for metabolic reactions.



INSTRUCTION FOR USE

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

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to beige homogeneous free flowing powder.
Appearance of prepared medium : Light amber coloured, opalescent gel forms in precipitate.
pH (at 25°C) : 6.9±0.2

INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Candida albicans	10231	10-100	Luxuriant	≥70%	25-30°C	48 - 72 Hours
Saccharomyces cerevisiae	9763	10-100	Luxuriant	≥70%	25-30°C	48 - 72 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out, replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

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

