Technical Information

SDA Growth Medium

Product Code: G1063

SDA Growth Medium is a synthetic defined agar media for the growth of *Saccharomyces cerevisiae*.

Composition**

Ingredients	Grams/Litre
Potassium dihyrogen phosphate	1.00
Magnesium sulphate	0.50
Sodium chloride	0.10
Calcium chloride	0.10
Biotin	0.002 gm
Calcium pantothenate	0.4 mg
Folic acid	0.002 mg
Inositol	2.00 mg
Niacin	0.4 mg
PABA	0.2 mg
Pyridoxin, HCl	0.4 mg
Riboflavin	0.2 mg
Thiamine HCl	0.4 mg
Boric acid	0.5 mg
Copper sulphate	0.04 mg
Potassium iodide	0.1 mg
Ferric chloride	0.2 mg
Manganese sulphate	0.4 mg
Sodium molybdate	0.2 mg
Zinc sulphate	0.4 mg
Ammonium sulphate	5.00
Dextrose	20.00
Adenine	0.010
L-Arginine HCl	0.050
L-Aspartic acid	0.080
L-Histidine HCl	0.020
L-Isoleucine	0.050
L-Leucine	0.100
L-Lysine HCl	0.050
L-Methionine	0.020
L-Phenylalanine	0.050
L-Threonine	0.100
L-Tryptophan	0.050
L-Tyrosine	0.050
Uracil	0.020
L-Valine	0.140
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 42.49 grams in 1000 ml distilled water. Sterilize by autoclaving at 10 lbs pressure (115°C) for 20 minutes. Mix well and dispense as desired.

Principle and Interpretation

SDA Growth Medium is a synthetic defined agar media for the growth of *Saccharomyces cerevisiae*. Synthetically Defined media known as Yeast Nitrogen Base Media for the growth of yeast cells were first cited by Wickerham (1, 2). SDA Growth Medium includes a yeast nitrogen base along with ammonium sulfate and dextrose as the carbon source, which is further supplemented with various nutrients. This makes it a complete synthetic growth medium for yeast cells.

Quality control

Appearance of Powder :
Off white to yellow coloured, homogeneous, free flowing powder.
Gelling :
Firm, comparable with 1.5% Agar gel.
Colour and Clarity :
Light yellow coloured, clear to slightly opalescent gel forms in Petri plates.
Cultural Response :
Cultural characteristics observed after an incubation at 25-30°C for 18 - 48 hours.

Organisms (ATCC)	Growth
Saccharomyces cerevisiae ATCC9763	good-luxuriant

Storage and Shelf Life

- Upon receipt, store at 2 - 8°C. Use before expiry date on the label.

Reference

1. Adams, A., D. E. Gottschling, C. A. Kaiser, and T. Stearns. 1997. Methods in yeast genetics: A Cold Spring Harbor Laboratory Course Manual. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.
2. Burke, D., Dawson, D., and T. Stearns. 2000. Method in yeast genetics. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.

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