

Technical Information

SD Growth Medium

Product Code: G1062

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

Composition**

| Ingredients | Grams/Litre |
|--------------------------------|-------------|
| Potassium dihydrogen 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 |

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 27.49 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

SD 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). SD 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)

Saccharomyces cerevisiae ATCC9763

Growth

good-luxuriant

Storage and Shelf Life

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

Reference

1. Wickerham L. J., 1951, U.S. Dept. Agric. Tech. Bull. No. 1029
2. Wickerham L. J., 1946, J. Bacteriol., 52:293
3. Kaiser, C., et al. Methods in Yeast Genetics Cold Spring Harbor, (1994)

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