

Technical Information

DOBA Growth Medium with 2% Galactose and 1% Raffinose

Product Code: G1089

DOBA Growth Medium with 2% Galactose and 1% Raffinose is used 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
Galactose	20.00
Raffinose	10.00
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 51.7 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

DOBA Growth Medium with 2% Galactose and 1% Raffinose is used for the growth of *Saccharomyces cerevisiae*. This yeast strain is called budding yeast and is extensively studied microorganism in molecular and cell biology.

DOBA Growth Medium with 2% Galactose and 1% Raffinose is developed according to the formulae of Wickerham (1, 2) which supplies the required nutritional elements for budding yeast cells. This media is used for the classification of yeast strains based on the carbon and nitrogen requirements and it contains all the essential vitamins and inorganic salts except Ammonium sulphate which is required for the propagation of yeast cells. Furthermore, this media does not contain the amino acids namely, histidine, methionine, leucine, lysine and tryptophan. Galactose and raffinose serve as the carbon source for the cells.

Quality control

Appearance of Powder :

Light 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 ATCC 9763

Growth

good-luxuriant

Storage and Shelf Life

Store below 30°C and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Wickerham. 1939. J. Tropical Med. Hyg. 42:176.
2. Wickerham. 1946. J. Bacteriol. 52:293.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.