

Technical Information

DOB Growth Medium with 2% Galactose and 1% Raffinose

Product Code: G1088

DOB 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	mg
Calcium pantothenate	0.4 mg
Folic acid	0.002 mg
Inositol	mg
Niacin	mg
PABA	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

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 36.7 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

DOB (Dropout Base) 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.

DOB 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 contains all the essential vitamins and inorganic salts which are required for the propagation of yeast cells but 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.

Colour and Clarity :

Light yellow coloured, clear solution without any precipitate.

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.

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