

Technical Information

EMM Growth Agar with Dextrose

Product Code: G1058

EMM Growth Agar with Dextrose is a minimal defined media for the growth of *Schizosaccharomyces pombe*.

Composition**

Ingredients	Grams/Litre
Phthalic acid K+	3.00
Disodium hydrogen phosphate	2.20
Ammonium chloride	5.00
Dextrose	5.00
Magnesium chloride, 6H ₂ O	1.05
Calcium chloride, 2H ₂ O	0.0147
Potassium chloride	1.00
Sodium sulphate	0.04
Pantothenic acid	0.001
Nicotinic acid	0.01
Myoinositol	0.01
Biotin	0.001
Boric acid	0.0005
Manganese sulphate	0.0004
Zinc sulphate, 7H ₂ O	0.0004
Ferric chloride, 6H ₂ O	0.0002
Molybdic acid	40 mcg
Potassium iodide	0.0001
Copper sulphate, 5H ₂ O	40 mcg
Citric acid	0.001
Agar	15.00

** Formula adjusted, standardized to suit performance parameters

Methodology

Suspend 32.32 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and dispense as desired.

Principle and Interpretation

EMM Growth Agar with Dextrose is a minimal defined media for the growth of *Schizosaccharomyces pombe*.

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)

Schizosaccharomyces pombe

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. Leupold U. (1950) CR Trav Lab Carlsberg Ser Physiol 24:381-480.
2. Leupold U. (1993) The origins of Schizosaccharomyces pombe genetics. In: Hall MN, Linder P. eds. The early Days of Yeast Genetics. New York. Cold Spring Harbor Laboratory Press. 125-128.
3. Mitchinson JM. (1975) Exp Cell Res 13:244-262.
4. Mitchinson JM. (1990) Bioessays 4:189-191.

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- User must ensure suitability of the product(s) in their application prior to use.
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