

EMM Growth Agar

G052

EMM Growth Agar 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	20.00
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
Molybdcic 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

Directions:

Suspend 47.32 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 10 lbs pressure (115°C) for 20 minutes. Cool to 45-50°C. Mix well and dispense as desired.

Principle and Interpretation:

EMM Growth Agar is a minimal defined media for the growth of *Schizosaccharomyces pombe*. Yeasts are unicellular eukaryotes and extensively studied model organism in molecular genetics. The fission yeast *Schizosaccharomyces pombe* is a model eukaryote which is very useful in studies of cell cycle and chromosome dynamics. These cells maintain their shape by growing through the cell tips and divide by medial fission to produce two daughter cells of equal sizes that makes them a powerful tool in cell cycle

research. It was first developed as an experimental model in the 1950's for studying genetics (1, 2) and for studying the cell cycle (3, 4). EMM (Edinburgh Minimal Media) Growth Medium is used for the maintenance and propagation of *S. pombe* in various molecular microbiology procedures. It functions as a minimal defined medium for fission

yeast growth and it contains dextrose, minerals and trace elements. Dextrose serves as the carbon source.

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.

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Organisms (ATCC)

Schizosaccharomyces pombe

Growth

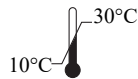
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References:

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.

Storage and Shelf-life :

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



Storage temperature



Do not use if package is damaged



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