

## Technical Information

### EMM Growth Medium With Low Dextrose

#### Product Code: G1057

EMM Growth Medium with Low 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 <sub>2</sub> O | 1.05        |
| Calcium chloride, 2H <sub>2</sub> 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 <sub>2</sub> O      | 0.0004      |
| Ferric chloride , 6H <sub>2</sub> O   | 0.0002      |
| Molybdic acid                         | 40 mcg      |
| Potassium iodide                      | 0.0001      |
| Copper sulphate, 5H <sub>2</sub> O    | 40 mcg      |
| Citric acid                           | 0.001       |

\*\* Formula adjusted, standardized to suit performance parameters

#### Methodology

Suspend 17.2 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 Medium with Low Dextrose is a minimal defined media for the growth of *Schizosaccharomyces pombe*.

#### 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)

*Schizosaccharomyces pombe*

##### Growth

good-luxuriant

#### Storage and Shelf Life

- Upon receipt, store 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.

## Disclaimer :

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