

## Technical Information

### Minimum Salts w/ MiVeg Acid Hydrolysate

**Product Code : VM2254**

**Application:-** Minimum Salt with MiVeg Acid Hydrolysate is recommended for the cultivation of *Escherichia coli* strains used for genetic and molecular studies.

### Composition

Ingredients	Gms / Litre
MiVeg acid hydrolysate	4.0
Disodium hydrogen phosphate	6.8
Monopotassium hydrogen phosphate	3.0
Sodium chloride	0.5
Ammonium chloride	1.0
Dextrose	4.0
Magnesium sulphate	0.24
Final pH ( at 25°C)	6.8±0.2

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

### Principle & Interpretation

Minimum Salt with MiVeg acid hydrolysate is prepared by using vegetable peptone in place of animal based peptone thereby making the medium free from BSE/TSE risks. This medium is the modification of Minimum Salt with Casein acid hydrolysate which is prepared based on the formula originally suggested by Davis et al (1) for cultivating *Escherichia coli* strains used for genetic and molecular studies.

It contains MiVeg acid hydrolysate which provides many amino acids to *Escherichia coli*. Ammonium chloride is incorporated as a nitrogen source. Dextrose supplies carbon and energy. Phosphates present in medium to buffer it against pH changes due to the utilization of carbohydrate. Magnesium sulphate provides ions required in a variety of enzymatic reactions including DNA replication (2).

### Methodology

Suspend 19.54 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Quality Control

#### Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

#### Colour and Clarity of prepared medium

Light amber coloured, clear to slightly opalescent solution.

#### Reaction

Reaction of 1.95 % w/v aqueous solution pH: 6.8 ±0.2 at 25°C

#### pH range

6.6-7.0

#### Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Escherichia coli</i> (B) (23226)	10 <sup>2</sup> -10 <sup>3</sup>	luxuriant



Dehydrated Culture Media  
Bases / Media Supplements

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

1. Davis L.G., Dibner M.D. and Battey J.F., 1986, Basic Methods in Molecular Biology, Elsevier, New York, N.Y.
2. Sambrook J., Fritsch E.F. and Maniatis T., 1989, Molecular Cloning : A Laboratory Manual, 2<sup>nd</sup> ed., Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.

## Disclaimer :

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