

### Technical Information

#### M2 Medium

With HEPES buffer, Sodium bicarbonate and Sodium lactate

#### Product Code: AL1142

**Application:-** M2 Medium is a modified form of M16 medium that contains HEPES along with sodium bicarbonate as a buffering agent. The presence of HEPES allows collection and handling of preimplantation stage mouse embryos for prolonged periods outside CO<sub>2</sub> incubator. Pyruvate and lactate present in the medium serve as energy sources since preimplantation embryos do not utilize glucose efficiently. AL1142 is M2 medium with HEPES buffer, sodium bicarbonate and sodium lactate. It does not contain penicillin and streptomycin. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements.

#### Composition\*\*

Ingredients	mg/Litre
<b>INORGANIC SALTS</b>	
Calcium chloride dihydrate	251.000
Magnesium sulphate anhydrous	165.00
Potassium chloride	356.00
Potassium dihydrogen phosphate	162.00
Sodium bicarbonate	350.00
Sodium chloride	5532.00
<b>OTHERS</b>	
Albumin bovine fraction V	4000.000
D-Glucose	100.00
HEPES Buffer	5430.00
Lactic acid sodium salt	2950.000
Phenol red sodium salt	10.000
Pyruvic acid sodium salt	36.000

#### Methodology

Supplement with 0.06g/L Penicillin G potassium salt(TC1187) and 0.05 g/L Streptomycin sulfate (TC1035)

#### Material Required But Not Provided

Penicillin G potassium salt (TC1187)  
Streptomycin sulphate (TC1035)

### Quality control

**Appearance** : Orangish red coloured, clear solution

**pH** : 7.00 -7.40

**Osmolality in mOsm/Kg H<sub>2</sub>O**

270.0 -290.00

**Sterility**

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

**Cultural Response**

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts .

**Endotoxin Content**

NMT 1EU/ml

### Storage and Shelf Life

Store at 2-8°C away from bright light. Shelf life is 12 months. Use before expiry date given on the product label.

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.