

M2 Medium

With HEPES buffer, Sodium bicarbonate and Sodium lactate

Product Code: AL142

Product Description :

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 CO₂ incubator. Pyruvate and lactate present in the medium serve as energy sources since preimplantation embryos do not utilize glucose efficiently.

AL142 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/L
INORGANIC SALTS	
Calcium chloride dihydrate	251.000
Magnesium chloride anhydrous	165.000
Potassium chloride	356.000
Potassium dihydrogen phosphate	162.000
Sodium bicarbonate	350.000
Sodium chloride	5532.000
OTHERS	
Albumin bovine fraction V	4000.000
D-Glucose	
HEPES Buffer	3000.000
Lactic acid sodium salt	2950.000
Phenol red sodium salt	10.000
Pyruvic acid sodium salt	36.000

Directions :

Supplement with 0.06g/L Penicillin G potassium salt (TC187) and 0.05 g/L Streptomycin sulfate (TC035)

Material required but not provided :

Penicillin G potassium salt (TC187)
Streptomycin sulphate (TC035)

Quality Control:

Appearance

Orangish red colored, clear solution

pH

7.20 -7.40

Osmolality in mOsm/Kg H₂O

270.00 -290.00

Sterility

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

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.

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Disclaimer :

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