Mitsuhashi and Maramorosch Insect Medium

With Sodium bicarbonate
1X Liquid Insect Cell Culture Medium

Product Code: IML002

Product Description :

Mitsuhashi and Maramorosch Insect Medium is specially used for the growth and propagation of mosquito cell lines especially *Aedes aegypticus*. It was originally developed to grow cells derived from Leafhopper. Subsequently, it has been used to culture cells derived from a number of insect species.

IML002 is Mitsuhashi and Maramorosch Insect Medium. It needs to be supplemented with 5-20% fetal bovine serum. Lactalbumin hydrolysate serves as a source of free amino acids, whereas yeast extract serves as a source of vitamins. When supplemented with fetal bovine serum, this medium is most commonly used to culture cells derived from a number of mosquitoes. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition :

Ingredients	mg/L
INORGANIC SALTS	
Calcium chloride dihydrate	190.000
Magnesium chloride anhydrous	46.900
Potassium chloride	200.000
Sodium bicarbonate	120.000
Sodium chloride	7000.000
Sodium phosphate monobasic	173.900
OTHERS	
D(+) Glucose	4000.000
Lactalbumin hydrolysate	6500.000
Yeast extract	5000.000

Material required but not provided :

Fetal bovine serum (RM1112/ RM10432)

Quality Control:

Appearance
Yellow to pale yellow colored clear solution.

pH
6.70 - 7.30

Osmolality in mOsm/Kg H2O
340.00 - 380.00

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 and comparing it with a control medium through minimum three subcultures.

Endotoxin Content
NMT 10EU/ml

Storage and Shelf Life:

Store at 15 - 30°C away from bright light.
Shelf life is 18 months.
Use before expiry date given on the product label.

Disclaimer :

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