



Product Specification

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Technical Information

Grace's Insect Medium

With Sodium bicarbonate Without L-Glutamine

Product Code: IML1001

Application:- Grace's Insect medium is a modification of the original formula developed by Wyatt. Grace (1962) improved the medium by introducing ten water soluble vitamins in Wyatt's formula. Grace successfully established four strains of cells from ovarian tissue of Australian emperor gum moth using this medium. These were the first continuous cell lines developed from insect tissue.

ML1001, Grace's Insect Medium can be used to culture cells derived from a variety of insects especially Lepidopterans and some species of Dipterans. It does not contain L-Glutamine. Originally the basal medium was supplemented with plasma from insects, the tissues of which were cultured or plasma from silkworm, *Bombyx mori*. Presently, the medium needs to be supplemented with 5-20% fetal bovine serum. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

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mg/Litre
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1320.000
1068.200
1356.650
2240.000
350.000
1007.000
1100.000
650.000
225.000
700.000
400.000
350.000
25.000
600.000
3376.000
50.000
75.000
625.000
50.000
150.000
350.000
175.000
100.000
72.000
100.000
200.000





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VΙ	т	Α	N	11	Ν	S

Choline chloride	0.200
D-Biotin	0.010
D-Pantothenic acid (hemicalcium)	0.020
Folic acid	0.020
Niacin	0.020
Pyridoxine hydrochloride	0.020
Riboflavin	0.020
Thiamine hydrochloride	0.020
myo-Inositol	0.020
p-Amino benzoic acid (PABA)	0.020
OTHERS	

 Alpha-Ketoglutaric acid
 370.000

 D(+) Glucose
 700.000

 D-Fructose
 400.000

 Fumaric acid free acid
 55.000

 L-Malic acid free acid
 670.000

 Succinic acid
 60.000

 Sucrose
 26680.000

Methodology

1. Add 20.55ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

Material required but not provided

L-Glutamine solution 200mM (TCL1012)

Fetal Bovine Serum (BA3112/ BA12432)

Quality control

Appearance

Yellow to pale yellow colored clear solution

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6.10 – 6.30

Osmolality in mOsm/Kg H₂O

350.00 -390.00

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 three subcultures.

Endotoxin Content

NMT 15EU/ml

Storage and Shelf Life

- Store at 2-8°C away from bright light.
- Shelf life is 18 months.
- Use before expiry date given on the product label.





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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.
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