Grace's Insect Medium, Supplemented

With L-Glutamine, Sodium Bicarbonate, Lactalbumin & Yeastolate

Cat. No. CPG002 | Size: 500 ML / 1L

1. Product Description

Grace's Insect Medium was developed and modified to provide conditions similar to the hemolymph of moths (Antherea). By using this medium as a basal medium and mixing appropriate additives, cells of lepidopterans as well as dipterans can be cultured. Afterwards, it is widely used as a basal medium for large-scale culture of SF9 cells and others frequently used in biotechnology research and biopharmaceutical production. In particular, this product (Cat. No. CPG002) is supplemented with Lactalbumin and Yeastolate (Yeast Extract), enabling culture even under lower serum concentrations.

2. Composition

Amino Acids	mg/L
β-Alanine	200.0
L-Alanine	225.0
L-Arginine-HCl	700.0
L-Asparagine	350.0
L-Aspartic Acid	350.0
L-Cystine	22.0
L-Glutamic Acid	600.0
L-Glutamine	600.0
Glycine	650.0
L-Histidine	2500.0
L-Isoleucine	50.0
L-Leucine	75.0
L-Lysine-HCl	625.0
L-Methionine	50.0
L-Phenylalanine	150.0
L-Proline	350.0
L-Serine	550.0
L-Threonine	175.0
L-Tryptophan	100.0
L-Tyrosine	50.0
L-Valine	100.0

Vitamins & Salts	mg/L
Biotin	0.01
D-Ca Pantothenate	0.02
Choline Chloride	0.20
Folic Acid	0.02
i-Inositol	0.02
Niacin	0.02
p-Aminobenzoic Acid	0.02
Pyridoxine HCl	0.02
Riboflavin	0.02
Thiamine	0.02
Inorganic Salts	**mg/L**
$CaCl_2$	1000.0
KCl	3440.0
$MgCl_2$ (Anhydrous)	1070.0
$MgSO_4$ (Anhydrous)	1358.0
$NaHCO_3$	350.0
$NaH_2PO_4 \cdot H_2O$	1013.0

Others	mg/L
D(-) Fructose	400.0
Fumaric Acid	55.0
D-Glucose	700.0
α-Ketoglutaric Acid	370.0
Lactalbumin	3300.0
Yeastolate	3300.0
Malic Acid	670.0
Succinic Acid	60.0
Sucrose	26680.0

3. Product Quality Specifications

Appearance	pH	Osmolality	Endotoxin	Sterility
Light yellow clear liquid	pH 6.3 ± 0.3	355 ± 20 mOsm/kg H_2O	<1 EU/mL	Sterile

4. Storage Conditions and Precautions

Store at refrigerated temperatures (2~8°C) protected from direct light. The expiration date is indicated on the product label; do not use expired products. Product degradation may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Storing against the inner walls of a refrigerator where temperatures may approach 0°C can cause degradation due to ice crystal formation. The addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store refrigerated (2~8°C).