

Product Information

TC-100 Insect Medium, with L-Glutamine
 Cat. No. TC100-1000ML (1000 ml)

General Information

TC-100 Insect medium was developed in the mid-1970's by Drs. Gardiner and Stockdale as a modification of Grace's medium. The modification was done to optimize the production of *Autographa californica* NPV virions by cells from the fall armyworm, *Spodoptera frugiperda*. When properly supplemented with 10% fetal bovine serum (FBS), TC-100 supports the growth of cells derived from a variety of lepidopteran species, including *Spodoptera frugiperda* (Sf9). It is specifically used for production of baculoviruses in lepidopteran cell lines.

Applications

- Insect cell culture (e.g. Sf9)
- Production of Baculovirus

Product Specifications

Appearance	Clear light yellow liquid
CO ₂ concentration, optimum	0.0 – 0.5 %
Storage and shelf life	Store at +2°C to +8°C, protected from light. Once opened store at 4°C and use within 6-8 weeks.
Shipping conditions	Ambient

Formulation

Components	Concentration mg/L
Amino Acids:	
Glycine	650.00
L-Alanine	225.00
L-Arginine HCl	700.00
L-Asparagine	350.00
L-Aspartic Acid	350.00
L-Cystine 2 HCl	25.00
L-Glutamic Acid	600.00
L-Glutamine	600.00
L-Histidine HCl H ₂ O	3086.34
L-Isoleucine	50.00
L-Leucine	75.00
L-Lysine HCl	625.00
L-Methionine	50.00
L-Phenylalanine	150.00
L-Proline	350.00
L-Serine	550.00
L-Threonine	175.00
L-Tryptophan	100.00
L-Tyrosine disodium salt	62.09

Components	Concentration mg/L
L-Valine	100.00
Vitamins:	
Cholin Chloride	0.20
D-Biotin	0.01
D-Calcium Pantothenate	0.02
Folic Acid	0.02
Nicotinic Acid (Niacin)	0.02
Pyridoxine HCl	0.02
Riboflavin	0.02
Thiamine HCl	0.52
myo-Inositol	0.02
p-Amino Benzoic Acid	0.02
Inorganic Salts:	
CaCl ₂ 2 H ₂ O	1319.82
MgCl ₂	1068.20
MgSO ₄	1357.63
NaH ₂ PO ₄	876.92
KCl	2870.00

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Components	Concentration mg/L
NaHCO ₃	350.00
Other Components:	
D-Glucose	1000.00
Tryptose Broth	2600.00

Precautions and Disclaimer

This product is for research use and further manufacturing only.

Help Needed?

If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email (techservice@capricorn-scientific.com) or phone (+49 6424 944640).