3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

TC-100 Insect Medium

TC-100 insect medium was originally named BML-TC/10 when it was developed in the mid-1970's by Drs. Gardiner and Stockdale as a modification of Grace's medium. It is now more commonly known in the literature as TC-100. The medium was developed to optimize the production of Autographica californica NPV virions by cells from the fall armyworm, *Spodoptera frugiperda*. When properly supplemented TC-100 has been found to support the growth of cells derived from a variety of lepidopteran species. The medium is most commonly employed in the growth of baculoviruses in lepidopteran cell lines.

	T3160
	[1X]
COMPONENT	g/L
Inorganic Salts	
$CaCl_2$ (anhydrous)	0.9966
$MgSO_4$	1.357858
$MgCl_2$ (anhydrous)	1.068189
KCl	2.87
$NaHCO_3$	0.35
NaH_2PO_4	0.876923
Amino acids	
L-Alanine	0.225
L-Arginine · HCl	0.7
L-Asparagine	0.35
L-Aspartic Acid	0.35
L-Cystine · 2HCl	0.025
L-Glutamic Acid	0.6
L-Glutamine	0.6
Glycine	0.65
L-Histidine	2.5
L-Isoleucine	0.05
L-Leucine	0.075
L-Lysine · HCl	0.625
L-Methionine	0.05
L-Phenylalanine	0.15
L-Proline	0.35
L-Serine	0.55
L-Threonine	0.175
L-Tryptophan	0.1
L-Tyrosine · 2Na · $2H_2O$	0.07202
L-Valine	0.1

Vitamins and others	
D-Biotin	0.00001
Choline Chloride	0.002
Folic Acid	0.00002
myo-Inositol	0.00002
Niacin	0.00002
D-Pantothenic Acid · ½Ca	0.00002
p-Aminobenzoic Acid	0.00002
Pyridoxine · HCl	0.00002
Riboflavin	0.00002
Thiamine · HCl	0.00002
D(+)-Glucose	1.0
Tryptose Broth	2.6

Reference

1. Gardiner, G.R., and Stockdale, H., Two Tissue Culture Media for Production of Lepidopteran Cells and Polyhedrosis Virus. J. Invert. Pathol., **25**, 363-370 (1975).

JG,PD,JF,ALF,MAM 04/14-1