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

IPL-41 Insect Media

IPL-41 is part of a series of media originally developed at the USDA Insect Pathology Laboratory by Weiss et al. for the large scale propagation of cells from the fall armyworm, *Spodoptera frugiperda*. The medium is primarily used for the growth and maintenance of cell lines derived from lepidopterans and the propagation of viruses in these cell lines. One of the most significant uses of the medium is the large scale culture of baculovirus infected *Spodoptera* cells. The expression of recombinant proteins is undertaken from *Spodoptera* cells utilizing the baculovirus expression system (BEVS). Attempts have also been made to obtain the expression of foreign genes in cells cultured in IPL-41 without serum supplementation.

Reference

Weiss, S.A. et al., Improved Method for the Production of Insect Cell Cultures in Large Volumes. *In Vitro*, **17**, 495-502 (1981).

	I7760
	[1X]
COMPONENT	g/L
Inorganic Salts	
$CaCl_2 \cdot 2H_2O$	0.5
$CoCl_2 \cdot 6H_2O$	0.00005
$CuCl_2$	0.000158
$FeSO_4 \cdot 7H_2O$	0.00055
$MgSO_4$	0.918264
$MgCl_2 \cdot 4H_2O$	0.00002
$(NH_4)_6Mo_7O_{25} \cdot 4H_2O$	0.00004
KCl	1.2
$NaHCO_3$	0.25
NaH_2PO_4	1.008696
$ZnCl_2$	0.00004
Amino acids	
β-Alanine	0.3
L-Arginine · HCl	0.8
L-Asparagine	1.3
L-Aspartic Acid	1.3
L-Cystine · 2HCl	0.130337
L-Glutamic Acid	1.5
L-Glutamine	1.0
Glycine	0.2
L-Histidine	0.2
Hydroxy-L-Proline	0.8
L-Isoleucine	0.75
L-Leucine	0.25
L-Lysine · HCl	0.7
L-Methionine	1.0
L-Phenylalanine	1.0
L-Proline	0.5
DL-Serine	0.4
L-Threonine	0.2
L-Tryptophan	0.1
L-Tyrosine · 2Na	0.360375
L-Valine	0.5

Vitamins and others	
D-Biotin	0.00016
Choline Chloride	0.02
Folic Acid	0.00008
myo-Inositol	0.0004
Niacin	0.00016
D-Pantothenic Acid · ½Ca	0.000008
p-Aminobenzoic Acid	0.00032
Pyridoxine · HCl	0.0004
Riboflavin	0.00008
Thiamine · HCl	0.00008
Vitamin B-12	0.00024
Fumaric acid	0.0044
D(+)-Glucose	2.5
α-Ketoglutaric acid	0.0296
L(-)-Malic Acid, free acid	0.0536
Maltose	1.0
Succinic acid free acid	0.0048
Sucrose	1.65

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