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Product Information

Grace's Insect Media

Grace's medium was originally formulated to support the growth of cells derived from the Australian emperor gum moth, *Antherea eucalypti*. The medium is a modification of Wyatt's medium to more closely resemble *Antherea hemolymph*. The cell lines established by Grace using this medium were the first continuous lines developed. The basal medium, when properly supplemented, has been used to culture cells derived from a variety of insects including several species of lepidopterans as well as some dipterans. The medium is primarily used as a basal medium for the growth and maintenance of cell lines derived from lepidopterans.

	G9771	G8142
	[Powder]	[1×]
COMPONENT	g/L	g/L
Inorganic Salts	Ţ,	
CaCl ₂ (anhydrous)	1.0	1.0
MgCl ₂ (anhydrous)	1.068189	1.068189
MgSO ₄ (anhydrous)	1.357858	1.357858
KCI	2.24	2.24
NaHCO₃	_	0.35
NaH ₂ PO ₄	0.876923	0.876923
Amino acids		
β-Alanine	0.2	0.2
L-Alanine	0.225	0.225
L-Arginine · HCI	0.7	0.7
L-Asparagine	0.35	0.35
L-Aspartic Acid	0.35	0.35
L-Cystine · 2HCl	0.025	0.025
L-Glutamic Acid	0.6	0.6
L-Glutamine	0.6	0.6
Glycine	0.65	0.65
L-Histidine	2.5	2.5
L-Isoleucine	0.05	0.05
L-Leucine	0.075	0.075
L-Lysine · HCI	0.625	0.625
L-Methionine	0.05	0.05
L-Phenylalanine	0.15	0.15
L-Proline	0.35	0.35
L-Serine	0.550	0.550
L-Threonine	0.175	0.175
L-Tryptophan	0.1	0.1
L-Tyrosine · 2Na	0.07202	0.7202
L-Valine	0.1	0.1

0.00001	0.00001
0.0002	0.0002
0.00002	0.00002
0.00002	0.00002
0.00002	0.00002
0.00002	0.00002
0.00002	0.00002
0.00002	0.00002
0.00002	0.00002
0.00002	0.00002
0.7	0.7
0.4	0.4
0.055	0.055
0.37	0.37
0.67	0.67
0.06	0.06
26.68	26.68
0.35	_
	0.0002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.00002 0.7 0.4 0.055 0.37 0.67 0.06 26.68

References

- Grace, T.D.C., Establishment of four strains of cells from insect tissues grown in vitro. Nature, 195, 788-789 (1962).
- 2. Grace, T.D.C., Establishment of a line of cells from the silkworm, *Bombyx mori*. Nature, **216**, 613 (1967).
- 3. Grace, T.D.C., Establishment of a line of mosquito (*Aedes aegypti*) cells grown *in vitro*. Nature, **211**, 366-367 (1966).

GS,BG,JG,PD,JF,ALF,MAM 07/18-1