



Product Information

TNM-FH Insect Medium

A number of modifications of Grace's medium were developed in several laboratories in the late 1960's and 1970's. Many of these modifications were developed by Dr. W.F. Hink for the growth of cells derived from the cabbage looper, *Tricoplusia ni*. This formula represents the modification known as TNM-FH. The medium when properly supplemented has been found to support the growth of cells derived from a variety of lepidopteran species.

REFERENCES

1. Hink, W.F. (1970). Established Insect Cell Line from the Cabbage Looper, *Tricoplusia ni*. Nature 226, 466-467.
2. Hink, W.F., E. Strauss and J.L. Mears. (1974). Effects of Media Constituents on Growth of Insect Cells in Stationary and Suspension Cultures. In Vitro 9, 371.

<u>COMPONENT</u>	T 1032 g/L	T 3285 [1X] g/L	<u>COMPONENT</u>	T 1032 g/L	T 3285 [1X] g/L
INORGANIC SALTS			VITAMINS		
CaCl ₂ •2H ₂ O (anhydrous)	1.0	1.0	p-Aminobenzoic Acid	0.00002	0.00002
MgCl ₂ •6H ₂ O (anhydrous)	1.068189	1.068189	D-Biotin	0.00001	0.00001
MgSO ₄ (anhydrous)	1.357856	1.357856	Choline Chloride	0.0002	0.0002
KCl	2.24	2.24	Folic Acid	0.00002	0.00002
NaHCO ₃	—	0.35	myo-Inositol	0.00002	0.00002
NaH ₂ PO ₄	0.876923	0.876923	Niacin	0.00002	0.00002
AMINO ACIDS			D-Pantothenic Acid •½Ca	0.00002	0.00002
β-Alanine	0.2	0.2	Pyridoxine•HCl	0.00002	0.00002
L-Alanine	0.225	0.225	Riboflavin	0.00002	0.00002
L-Arginine•HCl	0.7	0.7	Thiamine	0.00002	0.00002
L-Aspartic Acid	0.35	0.35	OTHER		
L-Asparagine	0.35	0.35	D(-)-Fructose	0.4	0.4
L-Cystine•2HCl	0.025	0.025	Fumaric Acid, free acid	0.055	0.055
L-Glutamic Acid	0.6	0.6	D(+)-Glucose	0.7	0.7
L-Glutamine	0.6	0.6	α-Ketoglutaric Acid	0.37	0.37
Glycine	0.65	0.65	Lactalbumin Hydrolysate	3.3333	3.3333
L-Histidine	2.5	2.5	L(-)-Malic Acid, free acid	0.67	0.67
L-Isoleucine	0.05	0.05	Succinic Acid	0.06	0.06
L-Leucine	0.075	0.075	Sucrose	26.68	26.68
L-Lysine•HCl	0.625	0.625	Yeast Extract	3.3333	3.3333
L-Methionine	0.05	0.05	ADD		
L-Phenylalanine	0.15	0.15	NaHCO ₃	0.35	—
L-Proline	0.35	0.35	Grams of powder		
DL-Serine	1.1	1.1	required to prepare 1 L		
L-Threonine	0.175	0.175		51.2	N/A
L-Tryptophan	0.1	0.1			
L-Tyrosine•2Na	0.07202	0.07202			
L-Valine	0.1	0.1			