





# Comparative Formulation

## Grace's Insect Media

 Powdered Media	GIP05	GIP06
Amino Acids	mg/L	mg/L
beta-Alanine	200.0000	200.0000
Glycine	650.0000	650.0000
L-Alanine	225.0000	225.0000
L-Arginine, Hydrochloride	700.0000	700.0000
L-Asparagine, Anhydrous	350.0000	350.0000
L-Aspartic Acid	350.0000	350.0000
L-Cystine, Dihydrochloride	28.6800	28.6800
L-Glutamine	600.0000	600.0000
L-Histidine, Hydrochloride, Monohydrate	3377.8601	3377.8601
L-Isoleucine	50.0000	50.0000
L-Leucine	75.0000	75.0000
L-Lysine, Hydrochloride	625.0000	625.0000
L-Methionine	50.0000	50.0000
L-Phenylalanine	150.0000	150.0000
L-Proline	350.0000	350.0000
L-Serine	550.0000	550.0000
L-Threonine	175.0000	175.0000
L-Tryptophan	100.0000	100.0000
L-Tyrosine, Disodium, Dihydrate	62.0000	62.0000
L-Valine	100.0000	100.0000

 Powdered Media	GIP05	GIP06
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>
Calcium Chloride, Anhydrous	500.0000	500.0000
Magnesium Chloride, Anhydrous	1070.0000	1070.0000
Magnesium Sulfate, Anhydrous	1360.0000	1360.0000
Potassium Chloride	2800.0000	2800.0000
Sodium Phosphate, Monobasic, Monohydrate	1013.0000	1013.0000
<b>Other Components</b>	<b>mg/L</b>	<b>mg/L</b>
alpha-Ketoglutaric Acid	370.0000	370.0000
D-Fructose	400.0000	400.0000
D-Glucose, Anhydrous	700.0000	700.0000
Fumaric Acid	55.0000	55.0000
L-Malic Acid	670.0000	670.0000
Lactalbumin Hydrolysate		3330.0000
Succinic Acid	60.0000	60.0000
Sucrose	26680.0000	26680.0000
Yeast Extract		3330.0000
<b>Vitamins</b>	<b>mg/L</b>	<b>mg/L</b>
Biotin	0.0100	0.0100
Choline Chloride	0.2000	0.2000
D-Calcium Pantothenate	0.0200	0.0200
Folic Acid	0.0200	0.0200
Myo-Inositol	0.0200	0.0200
Nicotinic Acid	0.0200	0.0200
para-Aminobenzoic Acid	0.0200	0.0200
Pyridoxine, Hydrochloride	0.0200	0.0200
Riboflavin	0.0200	0.0200
Thiamine, Hydrochloride	0.0200	0.0200

 Liquid Media	GIL01	GIL02	GIL03	GIL07
<b>Amino Acids</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
beta-Alanine	200.0000	200.0000	200.0000	200.0000
Glycine	650.0000	650.0000	650.0000	650.0000
L-Alanine	225.0000	225.0000	225.0000	225.0000
L-Arginine, Hydrochloride	700.0000	700.0000	700.0000	
L-Asparagine, Anhydrous	350.0000	350.0000	350.0000	350.0000
L-Aspartic Acid	350.0000	350.0000	350.0000	350.0000
L-Cystine, Dihydrochloride	28.6800	28.6800	28.6800	28.6800
L-Glutamine	600.0000	600.0000	600.0000	
L-Histidine, Hydrochloride, Monohydrate		3377.8601	3377.8601	3377.8601
L-Isoleucine	50.0000	50.0000	50.0000	50.0000
L-Leucine	75.0000	75.0000	75.0000	75.0000
L-Lysine, Hydrochloride	625.0000	625.0000	625.0000	
L-Methionine	50.0000	50.0000		50.0000
L-Phenylalanine	150.0000	150.0000	150.0000	150.0000
L-Proline	350.0000	350.0000	350.0000	350.0000
L-Serine	550.0000	550.0000	550.0000	550.0000
L-Threonine	175.0000	175.0000	175.0000	175.0000
L-Tryptophan	100.0000	100.0000	100.0000	100.0000
L-Tyrosine, Disodium, Dihydrate	62.0000	62.0000	62.0000	62.0000
L-Valine	100.0000	100.0000	100.0000	100.0000
<b>Inorganic Salts</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
Calcium Chloride, Anhydrous	500.0000	500.0000	500.0000	500.0000
Magnesium Chloride, Anhydrous	1070.0000	1070.0000	1070.0000	1070.0000
Magnesium Sulfate, Anhydrous	1360.0000	1360.0000	1360.0000	1360.0000
Potassium Chloride	2800.0000	2800.0000	2800.0000	2800.0000
Sodium Bicarbonate	350.0000	350.0000	350.0000	
Sodium Phosphate, Monobasic, Monohydrate	1013.0000	1013.0000	1013.0000	1013.0000

 Liquid Media	GIL01	GIL02	GIL03	GIL07
<b>Other Components</b>	mg/L	mg/L	mg/L	mg/L
alpha-Ketoglutaric Acid	370.0000	370.0000	370.0000	370.0000
D-Fructose	400.0000	400.0000	400.0000	400.0000
D-Glucose, Anhydrous	700.0000	700.0000	700.0000	700.0000
Fumaric Acid	55.0000	55.0000	55.0000	55.0000
L-Malic Acid	670.0000	670.0000	670.0000	670.0000
Lactalbumin Hydrolysate		3330.0000		
Succinic Acid	60.0000	60.0000	60.0000	60.0000
Sucrose	26680.0000	26680.0000	26680.0000	26680.0000
Yeast Extract		3330.0000		
<b>Vitamins</b>	mg/L	mg/L	mg/L	mg/L
Biotin	0.0100	0.0100	0.0100	0.0100
Choline Chloride	0.2000	0.2000	0.2000	0.2000
D-Calcium Pantothenate	0.0200	0.0200	0.0200	0.0200
Folic Acid	0.0200	0.0200	0.0200	0.0200
Myo-Inositol	0.0200	0.0200	0.0200	0.0200
Nicotinic Acid	0.0200	0.0200	0.0200	0.0200
para-Aminobenzoic Acid	0.0200	0.0200	0.0200	0.0200
Pyridoxine, Hydrochloride	0.0200	0.0200	0.0200	0.0200
Riboflavin	0.0200	0.0200	0.0200	0.0200
Thiamine, Hydrochloride	0.0200	0.0200	0.0200	0.0200