



Product Information Sheet

G398 Gamborg B-5 Basal Medium

Properties:

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	3.21 g/L
Storage Temp:	2-8°C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macro- and micronutrients and vitamins as described by Gamborg <i>et al.</i> (1968). pH = 3.5 – 4.5

Formula [mg/L]:

Ammonium Sulfate	134
Boric Acid	3
Calcium Chloride, Anhydrous	113.24
Cobalt Chloride·6H ₂ O	0.025
Cupric Sulfate·5H ₂ O	0.025
Na ₂ EDTA·2H ₂ O	37.26
Ferrous Sulfate·7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	122.09
Manganese Sulfate·H ₂ O	10
Molybdic Acid (Sodium Salt)·2H ₂ O	0.25

Potassium Iodide	0.75
Potassium Nitrate	2500
Sodium Phosphate Monobasic	150
Zinc Sulfate·7H ₂ O	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	1
Pyridoxine·HCl	1
Thiamine·HCl	10

Application Notes:

Plant Species: Soybean (*Glycine max*)

This medium was developed for the initiation and growth of soybean cell suspensions. This medium contains no ammonium nitrate; it does contain ammonium sulfate and increased levels of potassium nitrate. Concentrations of NH₄⁺ over 2 mM inhibited cell growth.

PhytoTechnology Laboratories® also carries Gamborg B-5 Basal Salt Mixture (without vitamins) Product No. G768

Please Note: While PhytoTechnology Laboratories® tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

Gamborg OL, Miller RA, and K Ojima (1968) Nutrient Requirements of suspension cultures of soybean root cells.
Exp. Cell Research Vol. 50: 151-158.

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