Product Information Sheet

G768
Gamborg B-5 Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	3.10 g/L
Storage Temp:	2 – 6° 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 as described by Gamborg, et al (1968). pH = 3.5 – 4.5

Formula (mg/L)

Ammonium Sulfate	134
Boric Acid	3
Calcium Chloride, Anhydrous	113.24
Cobalt Chloride·$6H_2O$	0.025
Cupric Sulfate·$5H_2O$	0.025
Na2 EDTA·$2H_2O$	37.26
Ferrous Sulfate·$7H_2O$	27.8
Magnesium Sulfate, Anhydrous	122.09

Manganese Sulfate·H_2O	10
Molybdic Acid (Sodium Salt)·$2H_2O$	0.25
Potassium Iodide	0.75
Potassium Nitrate	2500
Sodium Phosphate Monobasic	150
Zinc Sulfate·$7H_2O$	2

Application Notes

Plant Tissue Culture
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 NH_4^+ over 2 mM inhibited cell growth.

References

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

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