



### 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	Manganese Sulfate·H <sub>2</sub> O	10
Boric Acid	3	Molybdic Acid (Sodium Salt)·2H <sub>2</sub> O	0.25
Calcium Chloride, Anhydrous	113.24	Potassium Iodide	0.75
Cobalt Chloride·6H <sub>2</sub> O	0.025	Potassium Nitrate	2500
Cupric Sulfate·5H <sub>2</sub> O	0.025	Sodium Phosphate Monobasic	150
Na <sub>2</sub> EDTA·2H <sub>2</sub> O	37.26	Zinc Sulfate·7H <sub>2</sub> O	2
Ferrous Sulfate·7H <sub>2</sub> O	27.8		
Magnesium Sulfate, Anhydrous	122.09		

#### 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<sub>4</sub><sup>+</sup> 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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