

### Product Information Sheet

### G371

## Gresshoff & Doy Basal Medium

#### Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Soluble in Hot Water
Typical Working Concentration:	2.71 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 and vitamins as described by Gresshoff and Doy (1974).

#### Formula (mg/L)

Ammonium Nitrate	1000
Boric Acid	0.3
Calcium Nitrate	241.2
Cobalt Chloride·6H <sub>2</sub> O	0.025
Cupric Sulfate·5H <sub>2</sub> O	0.025
Na <sub>2</sub> EDTA·2H <sub>2</sub> O	37.25
Ferrous Sulfate·7H <sub>2</sub> O	27.85
Magnesium Sulfate, Anhydrous	17.1
Manganese Sulfate·H <sub>2</sub> O	1
Molybdcic Acid (Sodium Salt)·2H <sub>2</sub> O	0.025
Potassium Chloride	65

Potassium Iodide	0.8
Potassium Nitrate	1000
Potassium Phosphate, Monobasic	300
Zinc Sulfate·7H <sub>2</sub> O	0.3
D-Biotin	0.2
Glycine (Free Base)	4
myo-Inositol	10
Nicotinic Acid (Free Acid)	0.1
Pyridoxine·HCl	0.1
Thiamine·HCl	1

#### Application Notes

Plant Species: Grapevine (*Vitis*), *Arabidopsis*, tomato, barley (Gresshoff & Doy, 1974); *Trifolium repens* (Gresshoff, 1980).

This medium was originally developed for the growth of haploid callus and plants from anthers of *Vitis vinifera*. Anthers cultured in late prophase of meiosis gave best results for haploid plantlet development.

#### References

Gresshoff, PM and CH Doy. (1974) Derivation of a haploid cell line from *Vitis vinifera* and the importance of the stage of meiotic development of anthers for haploid culture of this and other genera. Z. Pflanzenphysiol. 73: 132-141.

Gresshoff, PM (1980) In vitro culture of white clover: callus, suspension protoplast culture and plant regeneration. Bot. Gaz. (Chicago), 141: 157-164

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