



Product Information Sheet

B1459 BDS Basal Medium

Synonym: Modified B5 Medium

Properties

Form: Powder
Appearance: Under development
Application: Plant Tissue Culture
Solubility: Water
Typical Working Concentration: 3.65 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 as described by Dunstan and Short (1977).

Formula (mg/L)

	<u>mg/mL</u>
Ammonium Nitrate	320
Boric Acid	3
Calcium Chloride, Anhydrous	113.24
Cobalt Chloride•6H ₂ O	0.025
Cupric Sulfate•5H ₂ O	0.039
Na ₂ EDTA•2H ₂ O	37.3
Ferrous Sulfate•7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	122.092

	<u>mg/mL</u>
Manganese Sulfate•H ₂ O	10
Molybdc 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
Ammonium Phosphate	230
Ammonium Sulfate	134

Application Notes

Plant Tissue Culture Tested

Plant Species: This medium is used for numerous species.

References

Dunstan DI, Short KC (1977) Improved Growth of Tissue Cultures of the Onion, *Allium cepa*. Physiologia Plantarum 41 (1): 70-72 DOI: 10.1111/j.1399-3054.1977.tb01525.x

Greenway MB, Phillips IC, Lloyd MN, Hubstenberger JF, Phillips GC (2012) A nutrient medium for diverse applications and tissue growth of plant species *in vitro*. In Vitro Cell.Dev.Biol. – Plant 48: 403-410