



Product Information Sheet

C287 **Chee & Pool C2d Vitis** **Basal Medium**

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water Soluble
Typical Working Concentration:	4.49 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 Chee and Pool (1987). pH = 3.5 – 4.5

Formula (mg/L)

Ammonium Nitrate	1650
Boric Acid	6.2
Calcium Nitrate	492.3
Cobalt Chloride·6H ₂ O	0.025
Cupric Sulfate·5H ₂ O	0.025
Na ₂ EDTA·2H ₂ O	37.3
Ferrous Sulfate·7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	180.6
Manganese Sulfate·H ₂ O	0.845

Molybdcic Acid (Sodium Salt)·2H ₂ O	0.25
Potassium Nitrate	1900
Potassium Phosphate, Monobasic	170
Zinc Sulfate·7H ₂ O	8.6
myo-Inositol	10
Nicotinic Acid (Free Acid)	1.0
Pyridoxine·HCl	1.0
Thiamine·HCl	1.0

Application Notes

Plant Tissue Culture Tested

Plant Species: Grape (*Vitis* spp)

This medium was developed to improve grape shoot multiplication. This formulation has reduced levels of chloride, iodide, and manganese compared to MS. Calcium chloride was replaced by calcium nitrate, thus improving the quality of grape shoots.

References

Chee, R and RM Pool. 1987. Improved inorganic media constituents for in vitro shoot multiplication of *Vitis*. Sci. Hort. 32: 85.

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