



Product Information Sheet

P713 Parker Thompson Fern Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	0.77 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 Hickok et al. (1995) Unadjusted pH = 3.5 – 4.5 (See certificate of analysis for lot-specific value.)

Formula (mg/L)

Ammonium Molybdate	0.037
Ammonium Nitrate	125
Boric Acid	1.86
Calcium Chloride, Anhydrous	19.628
Cupric Sulfate•5H ₂ O	0.37
Na ₂ EDTA•2H ₂ O	37.3

Ferrous Sulfate•7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	58.565
Manganese Sulfate•H ₂ O	0.25
Potassium Phosphate, Monobasic	500
Zinc Sulfate•7H ₂ O	0.52

Application Notes

Plant Tissue Culture Tested

Plant species: *Ceratopteris* and other fern species

This medium was developed for the germination of fern spores and may need to be supplemented with a carbohydrate source and gelling agent.

References

Hickok, LG, TR Warne, and RS Fribourg. 1995. The biology of the fern *Ceratopteris* and its use as a model system. *Int. J. Plant Sci.* 156: 332-345

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