



Product Information Sheet

S816 Schenk & Hildebrandt Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	3.20 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 Schenk and Hildebrandt (1972). Plant Tissue Culture Tested, pH = 4.0 – 5.0.

Formula (mg/L)

A113	Ammonium Phosphate, Monobasic	300
B210	Boric Acid	5
C266	Calcium Chloride, Anhydrous	151
C350	Cobalt Chloride•6H ₂ O	0.1
C375	Cupric Sulfate•5H ₂ O	0.2
E410	Na ₂ EDTA•2H ₂ O	20
F263	Ferrous Sulfate•7H ₂ O	15

M150	Magnesium Sulfate, Anhydrous	195.4
M250	Manganese Sulfate•H ₂ O	10
M651	Molybdic Acid (Sodium Salt) •2H ₂ O	0.1
P840	Potassium Iodide	1
P100	Potassium Nitrate	2500
Z101	Zinc Sulfate•7H ₂ O	1

Application Notes

Used to tissue culture:

Abies alba (Schuller et al., 1989)

Catharanthus roseus (Mizukami et al., 1979)

Festuca arundinacea (Eizenga & Dahleen, 1990)

Gloriosa superba (Ghosh et al., 2002)

Scutellaria baicalensis suspension cultures (Yoon et al., 2000)

Polygonum tinctorium (Young-Am, 2000)

Capsicum frutescens (Holden & Yeoman, 1994)

Chamaecyparis nootkatensis (Kurz et al., 1989)

References

Eizenga, G. C., & Dahleen, L. S. (1990) Callus production, regeneration and evaluation of plants from cultured inflorescences of tall fescue (*Festuca arundinacea* Schreb.). *Plant Cell, Tissue and Organ Culture*, 22(1), 7-15.

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