



Product Information Sheet

W898 White Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	0.93 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 White (1963).

Formula

Boric Acid	1.5
Calcium Nitrate	208.5
Cupric Sulfate•5H ₂ O	0.001
Ferrous Sulfate	2.5
Magnesium Sulfate, Anhydrous	351.62
Manganese Sulfate•H ₂ O	5.31
Molybdenum Trioxide	0.0001

Potassium Chloride	65
Potassium Iodide	0.75
Potassium Nitrate	80
Sodium Phosphate Monobasic	16.5
Sodium Sulfate	200
Zinc Sulfate•7H ₂ O	3.0

Application Notes

Has been used to tissue culture:
Sugarcane protoplasts (Thom & Maretzki, 1985)
Brassica (Inomata, 1978)
Carica papaya (Litz & Conover, 1981)
Marchantia polymorpha (Ohta et al., 1977)

References

- Inomata, N. (1978). Production of interspecific hybrids in *Brassica campestris* x *B. oleracea* by culture in vitro of excised ovaries I. Development of excised ovaries in the crosses of various cultivars. 遺伝學雜誌, 53(3), 161-173.
- Litz, R. E., & Conover, R. A. (1981). In vitro polyembryony in *Carica papaya* L. ovules. Zeitschrift für Pflanzenphysiologie, 104(3), 285-288.



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- Ohta, Y., Katoh, K., & Miyake, K. (1977). Establishment and growth characteristics of a cell suspension culture of *Marchantia polymorpha* L. with high chlorophyll content. *Planta*, 136(3), 229-232.
- Thom, M., & Maretzki, A. (1985). Evidence for a plasmalemma redox system in sugarcane. *Plant physiology*, 77(4), 873-876.
- White, PR. 1963. *The Cultivation of Animal and Plant Cells*, 2nd Edition, Ronald Press, NY, NY.