



Product Information Sheet

H393 Heller Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	1.64 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 Heller (1953).

Formula (mg/L)

Aluminum Chloride·6H ₂ O	0.0543
Boric Acid	1
Calcium Chloride, Anhydrous	56.7
Cupric Sulfate·5H ₂ O	0.03
Ferric Chloride	1
Magnesium Sulfate, Anhydrous	122.1
Manganese Sulfate·H ₂ O	0.0758

Molybdenum Trioxide	0.03
Potassium Chloride	750
Potassium Iodide	0.01
Sodium Nitrate	600
Sodium Phosphate Monobasic	108.75
Zinc Sulfate·7H ₂ O	1

Application Notes

Heller Basal Salt Mixture is a low salt medium, allowing for the development of slower-growing plant species. It is similar to White's Basal Medium in that it is a low salt medium.

Plant tissues: *Cocos nucifera* (Nurita-Toruan, 1978); *Digitalis purpurea* (Rucker et al, 1976); *Elaeis guineensis* (Buffard-Morel, 1968); *Laeliocattleya* (Churchill et al, 1971); *Magnolia soulangeana* (Le Page-Degivry, 1970); *Paphiopedilum spp.* (Stewart & Button, 1975).

References

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