

X8458 X6 Medium

Properties:

Form: Solid
 Appearance: White powder
 Application: Plant Tissue Culture Media
 Solubility: Water
 Typical Working Concentration: 5.68 g/L
 Storage Temp: 2-8 °C
 Other Notes: Preparation of concentrated solutions is not recommended as insoluble precipitates may form.

Formula [mg/L]:

Ammonium Chloride	364
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride, Hexahydrate	0.025
Cupric Sulfate, Pentahydrate	0.025
EDTA, Disodium Salt, Dihydrate	37.26
Ferrous Sulfate, Heptahydrate	27.8
Magnesium Sulfate, Anhydrous	180.7
Manganese Sulfate, Monohydrate	16.9
Zinc Sulfate, heptahydrate	8.6

Molybdic Acid Sodium Salt, Dihydrate	0.25
Activated Charcoal	500
Potassium Iodide	0.83
Potassium Nitrate	3033
Potassium Phosphate, Monobasic, Anhydrous	170
Myo-Inositol	1000
Nicotinic Acid	0.5
Pyridoxine, Hydrochloride	0.5
Thiamine, Hydrochloride	0.1

Application Notes:

This was developed as maintenance medium for grapes (*V. vinifera* L. cv. Thompson Seedless) (Li et al. 2001). The pH was adjusted 6.0 prior to autoclaving.

References:

Li Z, Jayasankar S, and DJ Gray (2001) Expression of a bifunctional green fluorescent protein (GFP) fusion marker under the control of three constitutive promoters and enhanced derivatives in transgenic grape (*Vitis vinifera*). *Plant Science* Vol. 160(5):877-887.

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