



Product Information Sheet

C222 Carrot Shoot Development Basal Medium

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	3.21 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, vitamins, and plant growth regulators required to initiate shoots from carrot callus. Requires the addition of sucrose (e.g., 30 g/L) and a gelling agent (e.g., 6-8 g/L agar) pH = 3.5 – 4.5; should be adjusted to pH 5.6 – 5.8

Formula (mg/L)

Ammonium Sulfate	134
Boric Acid	3
Calcium Chloride, Anhydrous	113.24
Cobalt Chloride·6H ₂ O	0.025
Cupric Sulfate·5H ₂ O	0.025
Na ₂ EDTA·2H ₂ O	37.3
Ferrous Sulfate·7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	122.09
Manganese Sulfate·H ₂ O	10
Molybdic Acid (Sodium Salt)·2H ₂ O	0.25

Potassium Iodide	0.75
Potassium Nitrate	2500
Sodium Phosphate Monobasic	150
Zinc Sulfate·7H ₂ O	2
Kinetin	0.2
myo-Inositol	100
Nicotinic Acid (Free Acid)	1
Pyridoxine·HCl	1
Thiamine·HCl	10

Application Notes

Plant Tissue Culture Tested

Plant species: Carrot (*Daucus carota*)

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