Product Information Sheet

C167
Chu N6 Basal Medium w/ Vitamins

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	3.99 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 and vitamins as described by Chu et al. (1975). pH = 3.5 – 4.5

Formula (mg/L)

Ammonium Sulfate	463
Boric Acid	1.6
Calcium Chloride, Anhydrous	125.33
Na_2 EDTA·$2H_2O$	37.25
Ferrous Sulfate·$7H_2O$	27.85
Magnesium Sulfate, Anhydrous	90.37
Manganese Sulfate·H_2O	3.3
Potassium Iodide	0.8

Potassium Nitrate	2830
Potassium Phosphate, Monobasic	400
Zinc Sulfate·$7H_2O$	1.5
Glycine (Free Base)	2
Nicotinic Acid (Free Acid)	0.5
Pyridoxine·HCl	0.5
Thiamine·HCl	1

Application Notes

Plant Tissue Culture Tested
Plant species: rice (*Oryza sativa*)
Chu (N6) Medium was developed to promote the initiation, growth, and differentiation of callus from rice pollen cultures.
Ammonium nitrate has been replaced by ammonium sulfate. The molar concentration of NH_4^+ is 7.0 mM compared to 20.6mM for MS.

References

Chu CC, CC Wang, CS Sun, C Hsu, KC Yin, CY Chu and FY Bi. (1975) Scientia Sinic. 18: 659-668.

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