Product Information Sheet

C416
Chu N6 Basal Salt Mixture

Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	3.98 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 Chu et al. (1975). pH = 3.75 – 4.75

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

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Ammonium nitrate has been replaced by ammonium sulfate.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.

Revised 2/2007

India Contact

Life Technologies (India) Pvt Ltd.
306, Agarwal City Mall, Road 44, Pitampura, Delhi - 110034 (India)
Tel: +91-11-4220-8000; 4220-8111; 4220-8222 Fax: +91-11-4220-8444, Mobile: +91-98105-21400
Email - customerservice@lifetechindia.com | customerservice@atzlabs.com