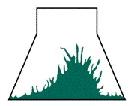
## PhytoTechnology Laboratories, LLC™





### **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 3.99 g/L Concentration: Storage Temp: 2 – 6° C

Storage Temp of Preparation of concentrated solutions is not recommended as insoluble

Stock Solution: 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 <sub>2</sub> EDTA-2H <sub>2</sub> O	37.25
Ferrous Sulfate-7H <sub>2</sub> O	27.85
Magnesium Sulfate, Anhydrous	90.37
Manganese Sulfate·H <sub>2</sub> O	3.3
Potassium Iodide	0.8

Potassium Nitrate	2830
Potassium Phosphate, Monobasic	400
Zinc Sulfate-7H <sub>2</sub> O	1.5
Glycine (Free Base)	2
Nicotinic Acid (Free Acid)	0.5
Pyridoxine-HCI	0.5
Thiamine-HCI	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Ammonium nitrate has been replaced by ammonium sulfate.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<sub>4</sub><sup>+</sup> 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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