Product Information Sheet

B514
Blaydes Modified Basal Medium

Properties

Form:	Powder
Appearance:	Off-white to yellow powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	31.86 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, sucrose, and Thiamine as described by Blaydes (1966).

Formula (mg/L)

Ammonium Nitrate	1000
Boric Acid	1.60
Calcium Nitrate	241.10
$Na_2EDTA•2H_2O$	74.50
Ferrous Sulfate•$7H_2O$	55.70
Magnesium Sulfate, Anhydrous	17.10
Manganese Sulfate•H_2O	4.40
Potassium Chloride	65.0

Potassium Iodide	0.80
Potassium Nitrate	100.0
Potassium Phosphate, Monobasic	300.0
Zinc Sulfate•$7H_2O$	1.50
Glycine (Free Base)	2.0
Sucrose	30,000
Thiamine•HCl	0.10

Application Notes

Plant Tissue Culture Tested
Plant species: Alfalfa
Callus initiation was achieved when the basal medium was supplemented with 1.9 mg/L Kinetin and 8.0 – 19.0 mg/L 2,4-D. Regeneration was achieved when the Kinetin and 2,4-D were omitted and the basal medium was supplemented with 100 mg/L myo-Inositol and 2,000 mg/L yeast extract.

References

Blaydes, OF. 1966. Interaction of kinetin and various inhibitors in the growth of soybean tissue. Physiol. Plant 19: 748-753.

Phyto Technology Laboratories, LLC
P.O. Box 12205; Shawnee Mission, KS 66282-2205
Phone: 1-888-749-8682 or 913-341-5343; Fax: 1-888-449-8682 or 913-341-5442
Web Site: www.phytotechlab.com