



## Product Information Sheet

### B514 Blaydes Modified Basal Medium

#### Properties

Form:	Powder
Appearance:	Off-white to yellow
Application:	Plant Tissue Culture
Solubility:	Soluble in 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). Plant Tissue Culture Tested.

#### Formula (mg/L)

Ammonium Nitrate	1000
Boric Acid	1.6
Calcium Nitrate	241.1
Na <sub>2</sub> EDTA•2H <sub>2</sub> O	74.5
Ferrous Sulfate•7H <sub>2</sub> O	55.7
Magnesium Sulfate, Anhydrous	17.1
Manganese Sulfate•H <sub>2</sub> O	4.4
Potassium Chloride	65

Potassium Iodide	0.8
Potassium Nitrate	100
Potassium Phosphate, Monobasic	300
Zinc Sulfate•7H <sub>2</sub> O	1.5
Glycine (Free Base)	2
Sucrose	30,000
Thiamine•HCl	0.1

#### Application Notes

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.