



## Product Information Sheet

### A267 Anderson Basal Salt Mixture

#### Properties

Form:	Powder
Appearance:	White to Yellow Powder
Application:	Plant Tissue Culture
Solubility:	Water
Typical Working Concentration:	1.89 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 Anderson (1978, 1980) pH = 3.25 – 4.25

#### Formula (mg/L)

Ammonium Nitrate	400
Boric Acid	6.2
Calcium Chloride, Anhydrous	332.2
Cobalt Chloride·6H <sub>2</sub> O	0.025
Cupric Sulfate·5H <sub>2</sub> O	0.025
Na <sub>2</sub> EDTA·2H <sub>2</sub> O	74.5
Ferrous Sulfate·7H <sub>2</sub> O	55.7
Magnesium Sulfate, Anhydrous	180.7

Manganese Sulfate·H <sub>2</sub> O	16.9
Molybdic Acid (Sodium Salt)·2H <sub>2</sub> O	0.25
Potassium Iodide	0.3
Potassium Nitrate	480
Sodium Phosphate Monobasic	330.6
Zinc Sulfate·7H <sub>2</sub> O	8.6

#### Application Notes

Plant Tissue Culture Tested

Plant Species: Rhododendron, *Rubus* (red and black raspberry).

Anderson achieved a two-fold increase in multiplication of red raspberries using this formulation compared to MS. The optimal concentrations of growth regulators for shoot multiplication of red and black raspberries was 0.1 – 2.5 µM IBA and 4.5 – 9.0 µM BA.

Anderson's medium contains approximately ¼ strength NH<sub>4</sub>NO<sub>3</sub> and KNO<sub>3</sub> compared to MS.

#### References

Anderson, WC. 1978. Tissue culture propagation of Rhododendrons. *In Vitro* 14: 334.

Anderson, WC. 1980. Tissue culture propagation of red and black raspberries, *Rubus idaeus* and *R. occidentalis*. *Acta Hort.* 112: 13-20.

Revised 2/2007

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