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·$6H_2O$	0.025
Cupric Sulfate·$5H_2O$	0.025
Na_2 EDTA·$2H_2O$	74.5
Ferrous Sulfate·$7H_2O$	55.7
Magnesium Sulfate, Anhydrous	180.7

Manganese Sulfate·H_2O	16.9
Molybdic Acid (Sodium Salt)·$2H_2O$	0.25
Potassium Iodide	0.3
Potassium Nitrate	480
Sodium Phosphate Monobasic	330.6
Zinc Sulfate·$7H_2O$	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_4NO_3 and KNO_3 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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