



Product Information Sheet

S743 Staba Modified Vitamin Solution (100x)

Properties

Form:	Liquid
Appearance:	Clear Solution
Application:	Plant Tissue Culture
Solubility:	Miscible with Water
Typical Working Concentration:	1 mL/ L of medium
Storage Temp:	-20-0° C
Storage Temp of Stock Solution:	N/A
Other Notes:	Contains a modification of the Staba (1969) vitamins as described by Skirvin and Chu (1979). This modification differs from the original Staba formulation in that myo-inositol was reduced from 2000 mg/L to 100 mg/L. Myo-Inositol may precipitate out of the solution when cold; warming with occasional agitation will redissolved it.

Formula (mg/L)

p-Aminobenzoic Acid	50
D-Biotin	100
Calcium Pantothenate	100
Choline Chloride	100
Cyanocobalamin	0.15
Folic Acid	50

myo-Inositol	10,000
Niacinamide	200
Pyridoxine HCl	200
Riboflavin	50
Thiamine HCl	100

Application Notes

Plant Tissue Culture Tested

The original use of these vitamins appears to be for the culture of *Digitalis*. These vitamins have been used for the culture of *Rubus* (Blackberry), *Prunus* (Peach), *Rosa* (Rose), *Cornus* (Dogwood), *Rhipsalidopsis* (Easter Cactus), and *Schlumbergera* (Christmas Cactus).

References

Staba, JE. 1969. Plant tissue culture as a technique for the phytochemist. *Recent Adv. in Phytochem.*, 2:80.

Skirvin, RM and MC Chu. 1979. *In vitro* culture of 'Forever Yours' rose. *HortSci.*, 14: 608-610.

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PhytoTechnology 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

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