

**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.

Revised 5/2007

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