

# CERTIFICATE OF ANALYSIS

Product Description MURASHIGE & SKOOG MODIFIED VITAMIN SOLUTION (1000x)  
CONTAINS ADDITIONAL THIAMINE HCl  
Product Number M557  
Lot Number 08M55707  
Storage Temperature 2-6° C

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Miscible with Water	Passes
pH (Neat)	Under Development	3.81
Physical Appearance Color Texture	Colorless Clear Liquid	Colorless Clear Liquid
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Sterility by USP<71>	Sterile	Passes
Insolubles	None	Passes*

\*Myo-Inositol may precipitate out of solution as the product ages in cold storage. This will re-dissolve upon warming and does not detrimentally affect the product.

## Biological Testing:

Test Concentration: 1.0 mL/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
Supports and/or facilitates plant growth and/or shoot proliferation in two or more plant tissue cultured lines with no morphological aberrations to plants	Hosta	Passes
	Echinacea	Passes

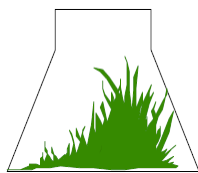
The material described in this certificate was manufactured in the United States of America and is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

**PhytoTechnology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTechnology Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Recommended Shelf Life Date: December 2013



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories®**

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