

# CERTIFICATE OF ANALYSIS

Product Description      MURASHIGE & SKOOG MICRONUTRIENT SALT BASE  
1x MICRONUTRIENT SALTS  
Product Number      M554  
Lot Number      13J0554012  
Storage Temperature      -20°C

## **Physiochemical Specifications:**

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (0.098 g/L)	Under Development	4.0
Physical Appearance Color*	2023-70 to 2027-70, 2021-50, 2018-60 to 2024-60, or 2153-40 May have brown and/or green crystals	2153-40 Tan
Texture	Fine to Coarse Powder	Coarse Powder
Solution Appearance Clarity Color	Clear Colorless to Slight Yellow Tint	Clear Slight Yellow Tint
Average Time to Dissolve	For Information Only (Approx. 6 min)	6 min
Insolubles	None	Passes

\* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

## **Biological Testing:**

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	Ajuga	Passes
	African Violet	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.**

Date of Release: 16-March-2018

Recommended Shelf Life Date: September 2020



David S. Hart  
Technical Director



PhytoTechnology  
Laboratories®  
*Dedicated to Growth*

### **PhytoTechnology Laboratories®**

Mailing Address: P.O. Box 12205, Shawnee Mission, KS 66282-2205  
Phone: 1-888-749-8682 (1-913-341-5343 *Outside the USA & Canada*)  
Fax: 1-888-449-8682 (1-913-341-5442 *Outside the USA & Canada*)  
Visit our Web Site at <http://www.phytotechlab.com>

