

# CERTIFICATE OF ANALYSIS

Product Description POLYVINYLPIRROLIDONE  
Product Number P728  
Lot Number 07H72806  
Storage Temperature Room Temperature  
Molecular Weight 40,000 Avg.  
Formula  $(C_6H_9NO)_n$   
CAS Number 9003-39-8

## Physicochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Passes
pH (0.050 g/L)	Under Development	5.75
Physical Appearance Color*	RM-1 RM-2, RM-3, or RM-31	RM-1 White
Texture	Fine to Crystalline Powder	Fine Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 4 min	Passes
Precipitation Formation	None	Passes
K Value	Meets Requirement	Passes

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

## Biological Testing:

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is commonly used as an anti-oxidant. This product is tested with two or more tissue cultured plant lines to ensure no cytotoxic/phytotoxic effects or morphological aberrations.	Boston Fern	Passes
	Hosta	Passes

The material described in this certificate is synthetic in nature. No animal- or plant-derived components were used in the manufacture of this product.

**Phyto Technology Laboratories, LLC provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. Phyto Technology 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: August 2012



Scott Stewart, Ph.D.



PhytoTechnology  
Laboratories, LLC  
Dedicated to Growth

### **PhytoTechnology Laboratories, LLC**

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