

# CERTIFICATE OF ANALYSIS

Product Description POLYVINYLPIRROLIDONE  
Product Number P728  
Lot Number 12J0728009  
Storage Temperature Room Temperature  
Molecular Weight 40,000 Avg.  
Formula  $(C_6H_9NO)_n$   
CAS Number 9003-39-8

## Physiochemical Specifications:

| TEST                                     | SPECIFICATION                              | RESULTS                   |
|--|--|---------------------------|
| Solubility                               | Soluble in Water @ 10 mg/mL                | Passes                    |
| pH                                       | Under Development                          | 5.5                       |
| Physical Appearance<br>Color*<br>Texture | PM-1 to PM-4<br>Fine to Crystalline Powder | PM-3 White<br>Fine Powder |
| Solution Appearance<br>Clarity<br>Color  | Clear<br>Colorless                         | Clear<br>Colorless        |
| Average Time to Dissolve                 | Within 5 min                               | Passes                    |
| Insolubles                               | None                                       | Passes                    |
| Purity                                   | For Information Only                       | 99.998%                   |

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

## Biological Testing:

Test Concentration: 50.0 mg/L

| 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 phytotoxic impurities that would cause morphological aberrations to plants. | Achimenes       | In Test-Passing |
|  | Coreopsis       | In Test-Passing |

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

**PhytoTech Labs Inc. provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. PhytoTech Labs Inc. 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: 2-December-2020

Recommended Shelf Life Date: December 2025



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