

CERTIFICATE OF ANALYSIS

Product Description POLYVINYLPIRROLIDONE
Product Number P728
Lot Number HGT0728028
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 | 3.9 |
| Physical Appearance Color* Texture | PM-1 to PM-4 Fine to Crystalline Powder | PM-1 White Fine Powder |
| Solution Appearance Clarity Color | Clear Colorless | Clear Colorless |
| Insolubles | None | Passes |
| FTIR | Conforms to Structure | Passes |
| K-Value | For Information Only | 30.2 |

* 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 antioxidant. This product is tested with two or more tissue cultured plant lines to ensure no phytotoxic impurities that would cause morphological aberrations to plants. | Parrot Feather | Passes |
| | Xanthi Tobacco Callus | Passes |

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: 29-September-2025

Recommended Shelf-Life Date: September 2033

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