

# CERTIFICATE OF ANALYSIS

Product Description L-ASCORBIC ACID, ACS REAGENT/ USP GRADE  
3-OXO-L-GULOFURANOLACTONE; VITAMIN C  
Product Number A106  
Lot Number ARK0106013  
Storage Temperature Room Temperature  
Molecular Weight 176.12 g/mol  
Formula C<sub>6</sub>H<sub>8</sub>O<sub>6</sub>  
CAS Number 50-81-7

## Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 10 mg/mL	Passes
pH	Under Development	3.6
Physical Appearance Color* Texture	PM-1 to PM-4 Crystalline Powder	PM-4 White Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Passes
Insolubles	None	Passes
FTIR	Conforms to Structure	Passes
Purity	Minimum 99.0%	99.67%
Heavy Metals (as Pb)	For Information Only	< 10 ppm

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

## Biological Testing:

Test Concentration: 100.0 mg/L

TEST SPECIFICATION	PLANT CELL LINE	RESULTS
This product is commonly used as an anti-oxidant. It is tested with two or more plant cell lines to ensure there are no phytotoxic impurities that would result in morphological aberrations to plants.	African Violet	Passes
	Tobacco Callus	Passes

This material is derived from microbial fermentation and highly purified and considered semi-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-2019

Recommended Shelf Life Date: December-2027



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