

CERTIFICATE OF ANALYSIS

Product Description	L-ASCORBIC ACID, ACS REAGENT/ USP GRADE 3-OXO-L-GULOFURANOLACTONE; VITAMIN C
Product Number	A106
Lot Number	06L10607
Storage Temperature	Room Temperature
Molecular Weight	176.13
Formula	C ₆ H ₈ O ₆
CAS Number	50-81-7

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water	Soluble in Water
pH (0.10 g/L)	3.25 – 4.25	3.80
Physical Appearance Color*	RM-1 (Super White) RM-1 to RM-4 or RM-31	RM-1 (Super White)
Texture	Crystalline Powder	Crystalline Powder
Solution Appearance Clarity Color	Clear Colorless	Clear Colorless
Average Time to Dissolve	Within 1 min	Within 1 min
Precipitation Formation	None	None
Assay	99.0%	99.8%
Heavy Metals	0.002%	<0.002%

* 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 plant cell lines to ensure there are no cytotoxic/phytotoxic effects.	Hosta	Passes—supported plant growth with no morphological aberrations to plants. No browning observed.
	Boston Fern	Passes—supported plant growth with no morphological aberrations to plants. No browning observed.

The material described in this certificate was manufactured in the United State of America and is either synthetic or plant derived in nature. No animal 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: November 2011

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