

Certificate of Analysis

Product Name:	Ascorbyl Palmitate		
CAS #:	137-66-6		
Starting Material(s):	Palmitic Acid, Ascorbic Acid		
Carrier:	None		
Residual Solvent:	Toluene <899 ppm, Ethyl Acetate <5000 ppm,		
	Methylisobutylketonine <5000 ppm		
Country of Origin:	China		
Batch Number:	Varies		
Manufacture Date:	Varies		
Retest Date:	Varies		
Test Desults Obtained by Dure Dull			

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Loss on Drying (USP<731>)	≤2.0%	0.369%
Ascorbyl Palmitate (HPLC)	≥95%	95.75%
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
E. Coli	Negative	Absent
Staph <i>aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<20 cfu/g
Salmonella	Negative	Absent
Pseudo. aeruginosa	Negative	Absent
Conclusion (PureBulk):	This product conforms to standard	ds

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS		
Appearance	A white or <mark>ye</mark> llow-white powder	Conforms		
Whiteness	≥68	88.7		
State of Solution	Clear and Not more than BY ₄	Conforms		
Optical Rotation	Between +21° and +24°	+22.0°		
Melting Range	Between 107°C and 117°C	109-110°C		
Residue on Ignition	≤0.1%	0.03%		
Sulphated Ash	≤0.1%	Not Detected		
Heavy Metals	≤4 ppm	<4 ppm		
Lead (Pb)	≤2 ppm	<2 ppm		
Arsenic (As)	≤1 ppm	<1 ppm		
Cadmium (Cd)	≤0.5 ppm	Not Detected		
Mercury (Hg)	≤0.01 ppm	Not Detected		
Identification	Positive	Positive		
Mesh	60 Mesh	100%		
	80 Mesh	100%		
	120 Mesh	90%		
Solubility	Slightly soluble in water and in vegetable Oils. 1 Conforms			
	gm dissolves in ~4.5ml of alcohol			
Conclusion (Manufacturer):	This product conforms to BP2015/EP8.0			
Additional Information:	Vegetarian/Vegan BSE/TSE Free Non-Allergen Melamine Free Gluten-			
	Free No Pesticides GRAS-Yes Alcohol Free Latex Free			
	Dioxane Free PAH Free Sewage Si	ludge - No Cruelty-Free Food Grade		
Sterilization:	Non-EtO Non-Irradiated			
GMO Statement:	Non-GMO			
Composition:	≥98% Ascorbyl Palmitate	≥98% Ascorbyl Palmitate		
-	≤2% Loss on drying & Impurities (Heavy Metals & Palmitic Acid)			
Storage Conditions: Keep in sealed container under 25°C.				
-	Keep away from strong light, heat an	Keep away from strong light, heat and moisture.		
Purebulk.Inc verifies the	at the information contained herein is true and correct	to the best of our knowledge.		
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Verified By: Candace Gibson / Nicole Rammage

(This document was produced electronically and is valid without signature.)