



## CERTIFICATE OF ANALYSIS

### NATURAL ASCORBYL PALMITATE

Appearance.....White or yellow white powder..White powder  
Appearance of Solution.....Clear, <BY4.....CONFORMS  
Assay.....98.0-100.5%.....98.52%  
Identification.....IR or almost chemical method..Conforms  
Loss on Drying.....1.0% max.....0.15%  
Melting Range.....107-117.....112-113.5  
Organic Volatile.....Meet the requirements.....Conforms  
Impurities  
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Residual Solvents.....	0.5% max.....	Conforms
Specific Rotation.....	0.1% max.....	0.04%
Sulphated Ash.....	+21.0 Degree+24.0 Degree.....	0.06%
Arsenic.....	3 ppm max.....	Conforms
Heavy Metals.....	10 ppm max.....	Conforms
Lead.....	2 ppm max.....	Conforms
E. Coli.....	Negative.....	Conforms
Salmonella.....	Negative.....	Conforms
Total Plate Count cfu/g.....	1000 cfu/g max.....	Conforms
Yeast & Mold cfu/g.....	100 cfu/g max.....	Conforms

Product Description:.....Mesh Size:  
.....85.0% min. between 40-80 mesh  
.....15.0% max. pass 80 mesh  
Conclusion:.....Conforms to BP2007/USP29/FCCIV/EP5.0/E304.  
Assay or Extract Testing Method:.....Titration