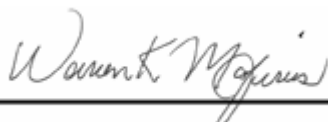


Description: Alpha Lipoic	Lot #: 239TA161146
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	<u>Standard</u>	<u>Result</u> *
<u>Physical Properties</u>		
Appearance	Light yellow crystalline powder	Complies
Water solubility	Insoluble	Complies
<u>Analytical</u>		
Assay (Dry Basis, %)	>= 99.0 <= 101.0	99.4
Loss on drying (%)	<= 0.2	0.1
Melting point (C)	>= 60.0 <= 62.0	61.7
Specific rotation (deg)	>= -1.0 <= +1.0	Complies
Stereometric form	Mixture of R and S	Complies***
ROI (%)	<= 0.1	0.03
Lead (ppm)	<= 0.5	0.1
Arsenic (ppm)	<= 1	Complies***
Cadmium (ppm)	<= 0.5	Complies***
Mercury (ppm)	<= 0.2	Complies***
Chromatographic Purity	Meets the requirements	Complies
<u>Microbiological</u>		
APC (CFU/gm)	<= 1000	<100
Yeast/mold (CFU/gm)	<= 100	<10
E. coli (CFU/gm)	Negative	Complies
Salmonella (25 gm)	Negative	Complies
<u>Storage Conditions</u>		
Manufacture date		Nov 27, 2016
Expiration date		Nov 27, 2018
Storage		Cool dry place sealed in light resistant container
Manufactured by		Plant # 239
Country of origin		China
Revision #		Rev 8 6/22/2016

Approved By:  Date: 2/27/2017
 Warren K. Majerus
 VP Quality Assurance

* Test results based on information supplied by the manufacturer, unless otherwise noted.
 ** Based on third party testing lab results.
 *** Based on results from Pharmore's sampling protocol.
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