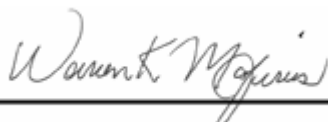


<b>Description:</b> Alpha Lipoic	<b>Lot #:</b> 239TA160520
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	<u>Standard</u>	<u>Result</u> *
<b><u>Physical Properties</u></b>		
Appearance	Light yellow crystalline powder	Complies
Water solubility	Insoluble	Complies
<b><u>Analytical</u></b>		
Assay (Dry Basis, %)	>= 99.0      <= 101.0	99.4
Loss on drying (%)	<= 0.2	0.1
Melting point (C)	>= 60.0      <= 62.0	61.6
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	Complies***
Arsenic (ppm)	<= 1	Complies***
Cadmium (ppm)	<= 0.5	Complies***
Mercury (ppm)	<= 0.2	Complies***
Chromatographic Purity	Meets the requirements	Complies
<b><u>Microbiological</u></b>		
APC (CFU/gm)	<= 1000	<100
Yeast/mold (CFU/gm)	<= 100	<10
E. coli (CFU/gm)	Negative	Negative
Salmonella (25 gm)	Negative	Negative
<b><u>Storage Conditions</u></b>		
Manufacture date		May 10, 2016
Expiration date		May 10, 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: 1/31/2017  
 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.

The information contained in this certificate of analysis is believed to be accurate and is offered in good faith. Pharmore Ingredients, however, cannot assume any guarantee against natural product variations, patent infringement, liabilities or risk involved from the use of this product. Customers' assume all risk and liability with the use of this product.