


# CERTIFICATE OF ANALYSIS

Product Name:	L-Arginine	Report Date:	Jul 13, 2017
Formula:	C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>	Batch No.:	170710
CAS No.:	74-79-3	Manu. Date:	Jul 10, 2017
Inspection Standard:	USP38	Exp. Date:	Jul 09 2019

## RESULTS OF ANALYSIS

Test Items	Specifications	Results
Appearance	White crystals or crystalline powder	Conforms
Identification	Infrared Absorption	Conforms
Specific rotation $[\alpha]_D^{25}$	+26.3 to +27.7°	+27.0°
Loss on drying	Not more than 0.5%	0.32%
Residue on ignition (sulfated)	Not more than 0.30%	0.025%
Chloride (Cl)	Not more than 0.05%	<0.020%
Sulfate (SO <sub>4</sub> )	Not more than 0.03%	< 0.02%
Iron (Fe)	Not more than 30ppm	< 10ppm
Heavy metals (Pb)	Not more than 15ppm	<10ppm
Lead	Not more than 3ppm	<3ppm
Chromatographic purity	Not more than 0.5% of an individual impurity is found Not more than 2.0% of total impurities is found	Conforms
Organic volatile impurities	Meets the requirements	Conforms
Assay	98.5 to 101.5 %	99.25%
<b>Conclusion:</b>	Conforms to the specifications of USP38	

Analyst: **侯健之**Auditor: **辽薛兰**Chief of QC: **于铁梅**