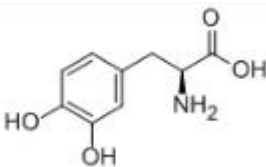


# Career Henan Chemical Co

National University Science Park, Henan,China  
Tel: +86-371-56618766 | Fax: +86-371-86658258

## CERTIFICATE OF ANALYSIS

Product Name:	Levodopa	CAS NO:	59-92-7
Botanical source:	Macuna Pruriens	Part of plant used:	Fruit
Molecular Formula:	C <sub>9</sub> H <sub>11</sub> NO <sub>4</sub>	Structure Formula :	
Molecular Weight:	197.19		
Batch No.:	1809001		
Report Date:	2018.09.02		

Tests	Specifications	Test results
Appearance	White or slightly cream coloured, crystalline powder	Complies
Identification	A. IR B.Chemical reaction C. Chemical reaction D. Chemical reaction	Complies Positive Positive Positive
Solubility	Slightly soluble in water, practically insoluble in alcohol and in ether, freely soluble in 1M Hydrochloric acid and sparingly soluble in 0.1M hydrochloric acid.	Complies
Particle size	100% pass through 80 mesh	Complies
Appearance of solution	Not more intensely coloured than reference solution BY6	Complies
PH	4.5—7.0	5.9
Optical rotation	-1.27°~-1.34°	-1.30°
Specific absorbance	137~147	144
Related substances	Single impurity≤0.5 %	Complies
Bulk density	≥0.40gm/cc	0.44gm/cc
Tapped Density	≥0.60gm/cc	0.65gm/cc
Heavy metals	≤10ppm	<10ppm
-Arsenic	≤1ppm	<1ppm

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-Mercury	≤0.1ppm	<0.1ppm
-Cadmium	≤1ppm	<1ppm
-Lead	≤3ppm	<3ppm
Ash	≤0.1%	0.06%
Loss on drying	≤1.0%	0.29%
Assay (On dry basis)	99.0% — 101.0%	99.89%
GMO/BSE Status	Not genetically modified organism. Free of BSE.	
Storage	Store in tight containers, in a cool dry area.	
Conclusion	Conform to the BP2009 standard	

Analyst: 连俊昊



Supervisor: 李文