

## CERTIFICATE OF ANALYSIS

### Mucuna pruriens Extract 3% L-Levodopa(HPLC)

Batch No.: CLID-C-A333951    Manufacture Date: 20230102    Expiry Date: 20260101

<b>General Information</b>			
Part Used	Seed	Solvents Used	Water&Ethanol
Botanical Source	<i>Mucuna pruriens (L.) DC.</i>	Country Of Origin	China
ITEMS	SPECIFICATION	METHOD	TEST RESULTS
<b>Physical&amp;Chemical Data</b>			
Color	Brown	Organoleptic	Conform
Odour	Characteristic	Organoleptic	Conform
Appearance	Fine Powder	Organoleptic	Conform
<b>Analytical Quality</b>			
Identification	Identical to R.S. sample	HPTLC	Identical
L-Levodopa	≥3.0%	HPLC	3.21%
Sieve analysis	100 % through 80 mesh	Eur.Ph. <2.9.12>	Conform
Loss on Drying	≤5.0 %	Eur.Ph. <2.8.17>	3.39 %
Total Ash	≤10.0 %	Eur.Ph. <2.4.16>	0.05 %
Bulk density	40~60 g/100mL	Eur.Ph. <2.9.34>	56 g/100mL
Tap density	60~90g/100mL	Eur.Ph. <2.9.34>	75 g/100mL
<b>Contaminants</b>			
Lead (Pb)	≤3.0 mg/kg	Eur.Ph. <2.2.58>ICP-MS	0.0228 mg/kg
Arsenic (As)	≤2.0 mg/kg	Eur.Ph. <2.2.58>ICP-MS	<0.01 mg/kg
Cadmium (Cd)	≤1.0 mg/kg	Eur.Ph. <2.2.58>ICP-MS	0.0137 mg/kg
Mercury (Hg)	≤0.1 mg/kg	Eur.Ph. <2.2.58>ICP-MS	0.0690 mg/kg
Solvents Residue	Meet Eur.Ph. <2.4.24>	Eur.Ph. <2.4.24>	Conform
Pesticides Residue	Meet Eur.Ph. <2.8.13>	Eur.Ph. <2.8.13>	Conform
<b>Microbiological</b>			
Total Plate Count	≤10000 cfu/g	Eur.Ph. <2.6.12>	10 cfu/g
Yeast &Mold	≤1000 cfu/g	Eur.Ph. <2.6.12>	10 cfu/g
E.Coli.	Negative	Eur.Ph. <2.6.13>	Conform
Salmonella	Negative	Eur.Ph. <2.6.13>	Conform
<b>General Status</b>			
Non-Irradiation	≤700	EN <13751:2002>	293
<b>Packing&amp;Storage</b>			
Packed in paper-drums and two plastic-bags inside; N.W:25kgs, I.D.35×H51cm;			
Store in a well-closed container Away from moisture,light, oxygen.			
<b>Shelf life</b>			
36 months under the conditions above and in its original packaging.			

## The Quality Standards Of The Product

### Mucuna pruriens Extract 3% L-Levodopa(HPLC)

No: 6020096001	Version: 02	Revision: 00
Used Part: Seed	Solvents Used: Water & Ethanol	
Botanical Source: <i>Mucuna pruriens</i> (L.) DC.	Country Of Origin: China	

ANALYSIS ITEM	SPECIFICATION	METHOD
<b>Assay:</b>		
L-Levodopa	≥3.0%	HPLC
Solvents used	≥5.0%	UV
Solvents used	≥5.0%	UV
Solvents used	≥5.0%	UV
Solvents used	≥5.0%	UV
Solvents used	≥5.0%	UV
Solvents used	≥5.1%	UV
Appearance	Fine Powder	Organoleptic
Color	Gray white	Organoleptic
Odor & taste	Characteristic	Organoleptic
Solvents used	Water & Ethanol	
Identification	Identical to R.S.sample	HPTLC
Loss on Drying	≤5.0%	Eur.Ph. <2.8.17>
Total ash	≤10.0%	Eur.Ph. <2.4.16>
Sieve analysis	100% through 80 mesh	Eur.Ph. <2.9.12>
Specific Rotation	45~65 °	Eur.Ph. <2.9.13>
Melting point	45~65 °C	Eur.Ph. <2.9.14>
Bulk density	40~60g/100mL	Eur.Ph. <2.9.34>
Tapped density	60~90g/100mL	Eur.Ph. <2.9.34>
<b>Heavy metals:</b>		
Lead(Pb)	≤3.0 mg/kg	Eur.Ph. <2.2.58>ICP-MS
Arsenic(As)	≤2.0 mg/kg	Eur.Ph. <2.2.58>ICP-MS
Cadmium(Cd)	≤1.0 mg/kg	Eur.Ph. <2.2.58>ICP-MS
Mercury(Hg)	≤0.1 mg/kg	Eur.Ph. <2.2.58>ICP-MS
Residual solvents	Meet Eur.Ph. <2.4.24>	Eur.Ph. <2.4.24>
Residual pesticides	Meet Eur.Ph. <2.8.13>	Eur.Ph. <2.8.13>
Non irradiated	≤700	EN <13751:2002>
Microbiology	Irradiation	Non irradiated
Total Plate Count	≤1000cfu/g	≤10000cfu/g
Yeast & Mold	≤100cfu/g	≤1000cfu/g
E.Coli	Negative	Negative
		Eur.Ph. <2.6.12>
		Eur.Ph. <2.6.12>
		Eur.Ph. <2.6.13>

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Salmonella	Negative	Negative	Eur.Ph. <2.6.13>
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<b>Packing&amp;Storage:</b>	Packed in paper-drums and two plastic-bags inside; N.W:25kgs, I.D.35×H51cm; Store in a well-closed container Away from moisture,light, oxygen.		
<b>Shelf life:</b>	36 months under the conditions above and in its original packaging.		

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