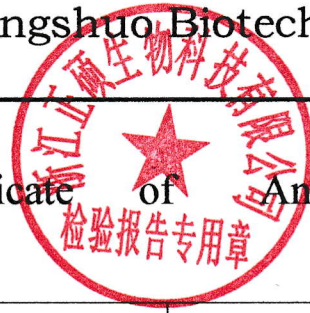


浙江正硕生物科技有限公司
Zhejiang zhengshuo Biotechnology Co., Ltd

Certificate of Analysis



Product Name	Levodopa	Batch No.	20221209
Mfg. Date	2022/12/09	Retest Date	2024/12/08
Quantity	1000kg	Reference	Usp
Items	Standard		Results
Appearance	White to off-white powder		Off-white powder
Identification	IR		Conforms
	The retention time of the major peak of the sample solution to that the standard solution, as obtained in assay		Conforms
Optical rotation	-160°~-167°		-165°
Organic Impurities	Levodopa related compound A≤0.1%		ND
	L-Tyrosine≤0.1%		0.02%
	Levodopa related compound B≤0.5%		ND
	Individual unknown impurity≤0.1%		0.01%
	Total impurities≤1.0%		0.03%
Loss on drying	≤0.5%		0.2%
Residue on ignition	≤0.1%		0.06%
Heavy metals(pb)	≤20ppm		Conforms
Assay	98.0%~102.0%		99.1%

Conclusion: the material complies with USP standard.