

成品检验报告 CERTIFICATE OF ANALYSIS

品名: D-苯丙氨酸
 PRODUCT: D-Phenylalanine
 批量: 500KG
 QUANTITY: 500KG
 有效期: 2年
 EXPIRY DATE: 2 YEARS

CAS: 673-06-3
 批号: BA006202207029
 BATCH No: SOST-20230721
 生产日期: 2023.07.21
 MANUFACTURE DATE: 2023.07.21
 报告日期: 2023.07.29
 REPORT DATE: 2023.07.29

检验项目 Item	检验标准 Inspection Standard	检验结果 Results
外观 Appearance	白色晶体或白色粉末 A white to off-white powder	Conforms
鉴别 Identification	HPLC RT	Conforms
比旋度 Specific rotation	+33.0°~+35.0°	+34.442°
干燥失重 Loss on drying	≤0.2%	0.04%
炽灼残渣 Residue on ignition	≤0.1%	0.06%
酸度(pH)	5.4-6.0	5.82
手性杂质 Chiral impurity by HPLC	≤0.1%	ND
其他氨基酸 other aminoacids	≤0.5%	未检出
含量 Assay	98.0%~101.0%	99.53%
有关物质 Related Substances	5-Benzyl hydantoin ≤0.1%	ND
	N-carbamoyl-D-phenylalanine ≤0.1%	ND
	Total Impurities总杂 ≤1.0%	0.206%
	Single Impurity单杂 ≤0.1%	≤0.071%
氯化物(Cl)	≤0.02%	<0.02%
硫酸盐(SO ₄)	≤0.02%	<0.02%
铁盐(Fe)	≤0.001%	<0.001%
铵盐(NH ₄)	≤0.02%	<0.02%
重金属 Heavy metals (as Pb)	≤10ppm	<10ppm

Conclusion: The product Conforms to the standard