

Certificate of Analysis

Product Name	L(+)- Rhamnose Monohydrate	CAS No.	10030-85-0
Botanical source	Sophorae Japonica	Part used	Flower
Batch No.	KN220501	Mfg. Date	2022.05.07
Batch Qty.	3500kg	Exp. Date	2024.05.06

Items	Specifications	Results
Appearance	White crystals or crystalline powder	White powder
Identification	IR: complies with reference spectrum	Complies
Melting point	82.0-92.0℃	82.2-91.3℃
Specific rotation	+7.5° ~ +8.5°	+7.93°
Bulk density	≥0.50gm/cc	>0.63gm/cc
Tapped density	≥0.80 gm/cc	>0.86 gm/cc
Heavy Metals	≤10ppm	<10ppm
Pb	≤3ppm	<3ppm
As	≤1ppm	<1ppm
Hg	≤0.1ppm	<0.1ppm
Cd	≤1ppm	<1ppm
Loss on drying	9.0%~11.0%	10.4%
Residue on ignition	≤ 0.1%	0.05%
Total Plate Count	≤1000cfu/g	<1000cfu/g
Yeast & Mold	≤100cfu/g	<100cfu/g
E.Coli.	Negative	Not detected
Salmonella	Negative	Not detected
Assay (HPLC)	≥98.0%	98.46%
Conclusion:	The product complies with Enterprise Standard	

Analyst: Xu Ke

Checker: Yang Jinbo

QA: Wang Jie

