

Certificate of Analysis

Product Name	N-acetylneuraminic acid	Batch Number	YG20210710
CAS No.	131-48-6	Manufacture Date	20210710
Reference	In House	Analysis Date	20210714
Quantity	150kg	Expiry Date	20230709

ITEMS	SPECIFICATION	RESULTS
Assay (w/w, HPLC)	>98.0%	99.3%
Physical & Chemical		
Appearance	White Powder	Conformity
Water content (by KF)	<1.0%	0.19%
Optical rotation	-34.0° ~ -30.0°	-33.2°
Residue on ignition	<0.2%	<0.11%
Heavy metals		
Heavy metal content	≤10ppm	Confirm
Pb	≤ 0.5 ppm	Not detected
As	≤ 0.5 ppm	0.005 ppm
Hg	≤ 0.1 ppm	Not detected
Cd	≤ 0.5 ppm	Not detected
Microbiological		
Total microbial count(GB 4783.2)	≤ 750 CFU/g	Not detected
Ethanol (by GC)	≤ 5000 ppm	141 ppm
Conclusion	Analysis according to in-house SP, Confirm.	