



西玛生物
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Certificate of Analysis

Product and Batch Information			
Product Name:	β -Nicotinamide Mononucleotide	Country of Origin:	P.R. China
CAS No.:	1094-61-7	Molecular Weight:	334.22
Molecular Formula:	$C_{11}H_{15}N_2O_8P$	Batch:	CS-NMN-200608
Manufacture Date:	Jun 08, 2020.	Expiry Date:	Jun 07, 2022.
Item	Specification	Result	Test Method
Active Ingredients			
Assay(% ,On Dried Base)	NLT98.0%	99.50%	HPLC
Physical Control			
Appearance	Fine Powder	Complies	Visual
Color	Off White to White	Complies	Visual
Identification	Positive	Complies	NMR
pH	2.0-4.0	3.73	Cph
Loss on drying	NMT 1.0%	0.32%	Cph
Mesh size	100% pass 40 mesh	Complies	Cph
Bulk density	≥ 0.15 g/ml	0.3383g/ml	Cph
Tapped density	≥ 0.3 g/ml	0.5182g/ml	Cph
Chemical Control			
Heavy metals	NMT 10PPM	Conforms	Atomic Absorption
Arsenic(As)	NMT 1PPM	Conforms	Atomic Absorption
Lead(Pb)	NMT 2ppm	Conforms	Atomic Absorption
Cadmium(Cd)	NMT 2ppm	Conforms	Atomic Absorption
Mercury(Hg)	NMT 1ppm	Conforms	Atomic Absorption
Solvents Residue	Meeting USP Standard	Conforms	Gas Chromatography
Microbiological Control			
Total Plate Count	10,000cfu/g Max	Conforms	AOAC
Yeast & Mold	300cfu/g Max	Conforms	AOAC
E.Coli	Negative/10g	Negative	AOAC
Salmonella	Negative/25g	Negative	AOAC
Staph Aureus	Negative/10g	Negative	AOAC
Packing and Storage			
Packing	Pack in paper-drums and two plastic-bags inside. 20kg/drum.		
Storage	Store in a well-closed container, suitable temperature :2~8°C.		
Shelf Life	2 years if sealed and stored properly.		

