

CERTIFICATE OF ANALYSIS

Product Name	β -Nicotinamide Mononucleotide	Batch No	PY-NI20190331
Quantity	50KG	Analysis Date	Apr.02,2019
Mfg. Date	Mar.31,2019	Exp. Date	Mar.30,2021
CAS No.	1094-61-7	Standard	USP2021 Standard

No.	Item	Specification	Result
1.	Appearance	White to off-white crystalline powder	Complies
2.	Sodium content	$\leq 1\%$	0.10%
3.	pH value (100mg/ml)	2.0-4.0	3.6
4.	Purity	$\geq 98.0\%$	98.9%
5.	Water content	$\leq 6\%$	1.4%
6.	Heavy metals	$< 10\text{ppm}$	Conforms
7.	Arsenic	$< 2\text{ppm}$	1.64ppm
8.	Lead	$< 2\text{ppm}$	1.39ppm
9.	Mercury	$< 1\text{ppm}$	$< 0.102\text{ppm}$ (LOQ)
10.	Cadmium	$< 0.5\text{ ppm}$	$< 0.013\text{ppm}$ (LOQ)
11.	Solvent residue	Ethanol $< 5000\text{ppm}$	3019ppm
12.	Total aerobic microbial count	$< 1000\text{cfu/g}$	35cfu/g
13.	Combined Yeast & Mold Count	$< 100\text{cfu/g}$	1cfu/g
14.	E. Coli	Negative	Negative
15.	Salmonella sp.	Negative	Negative
16.	Staph, aureus	Negative	Negative
17.	Assay (on anhydrous basis)	$\geq 95.0\%$	98.4%
18.	Conclusion	Conform with USP2021 Standard.	

Analyst: xuli

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