

**Certificate of Analysis**

<b>PRODUCT NAME:</b>	Nicotinamide Mononucleotide
<b>LOT NUMBER:</b>	SN190318
<b>SAMPLE DATE :</b>	03/18/2019
<b>REPORT DATE:</b>	03/22/2019
<b>CHEMICAL NAMES</b>	$\beta$ -Nicotinamide Mononucleotide
<b>CHEMICAL FORMULA</b>	C <sub>11</sub> H <sub>15</sub> N <sub>2</sub> O <sub>8</sub> P
<b>MELICULAR WEIGHT(MW)</b>	334.2
<b>Maximum absorption wave length</b>	260 nm
<b>CHEMICAL FAMILY</b>	Vitamin Derivatives
<b>CAS NUMBER</b>	1094-61-7

**ASSAY RESULTS**

TEST	METHOD	ANALYTE	SPECIFICATION	RESULTS
Identify	NMR	Nicotinamide Mononucleotide	Conforms to structure	Conforms to structure
Purity	HPLC/UV(wt%)	Nicotinamide Mononucleotide	$\geq 99\%$	<b>99.20%</b>
Moisture	Karl Fischer	Water	$\leq 5\%$	<b>0.50%</b>
Sodium content			$\leq 1\%$	<b>0.06%</b>
pH value		in water at 100mg/ml	2.0 - 4.0	<b>3.12</b>
Heavy Metals		Lead	$\leq 5$ ppm	<b>0.02 ppm</b>
		Arsenic	$\leq 5$ ppm	<b>0.03 ppm</b>
Microbial	USP<2021>	Total Plate Count	$\leq 750$ CFU/g	5 CFU/g
	USP<2022>	E. coli	$\leq 30$ MPN/100g	<b>N.D.</b>
Appearance	NA	Color, Form	White to yellowish powder	<b>White powder</b>

Store in room temperature in a dry place