

Certificate of Analysis

Product	β -Nicotinamide Adenine Dinucleotide	CAS No.	53-84-9
Product No.	LJNAD-001	Batch No.	LJNAD2026072301
Date of Mfg	2026/07/23	Retest Date	2028/07/22
Test Method	In-house	Quantity	110kg
Storage Conditions	Protected from light, sealed		

Test	Acceptance Criteria	Results
Appearance	White to yellowish powder	Conforms
Purity	$\geq 98.0\%$	99.2%
Assay of β -NAD	$\geq 90.0\%$	99.0%
Sodium contents	$\leq 1.0\%$	0.0097%
Water contents	$\leq 5.0\%$	3.5%
pH value in water(100mg/mL)	2.0~4.0	2.0
Endotoxin	$< 1\text{EU/Mg}$	$< 0.2\text{EU/Mg}$
Heavy metal contents	$\text{Pb} \leq 0.5\text{ppm}$	N.D
	$\text{As} \leq 0.5\text{ppm}$	N.D
	$\text{Hg} \leq 0.5\text{ppm}$	N.D
	$\text{Cd} \leq 0.5\text{ppm}$	N.D
Total microbial count	$\leq 750\text{CFU/g}$	$< 10\text{CFU/g}$
Coliform	$\leq 3\text{MPN/g}$	$< 3\text{MPN/g}$
Yeast and molds	$\leq 100\text{CFU/g}$	$< 10\text{CFU/g}$
Salmonella	Negative	Negative
E.coli	Negative	Negative
Conclusion	☒ Meet the requirements ☐ Do not meet the requirements	
Remark	It is only supplied as chemical product. It is only for R&D use.	

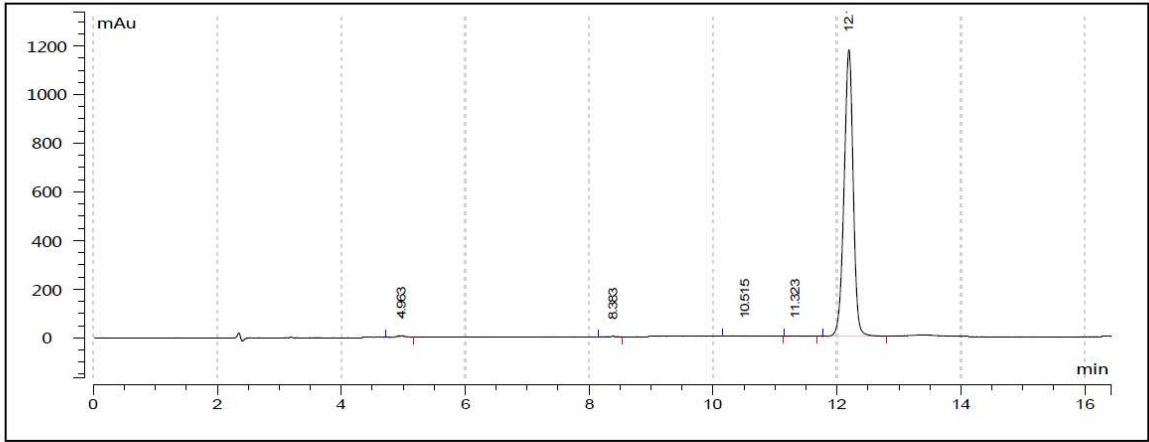
Reporter/Date: 张洁 2026/07/26

Approver/Date: 刘辉 2026/07/26



HPLC:

NAD-33. 9003-(UV-ch1-254)



峰列表

No	名称	保留时间(min)	峰面积(mAu*s)	峰宽(min)	半峰宽(min)	峰高(mAu)	面积百分比(%)	峰类型
1	N.A.	4.963	55.89655	0.237	0.140	6.672	0.461	BB
2	N.A.	8.383	7.54186	0.277	0.163	0.772	0.062	BB
3	N.A.	10.515	16.35116	0.825	0.485	0.562	0.135	BB
4	N.A.	11.323	11.49735	0.433	0.254	0.753	0.095	BB
5	N.A.	12.193	12042.19347	0.288	0.170	1183.972	99.248	BB
6	总计							