

Report Issued To: Natrium Health, 82055 S. Priest Dr #11750, Tempe, AZ 85284

Product Information			
Product Name:	OptiNAD+ Optimized Nicotinamide Adenine Dinucleotide	CoA #:	ND-24-1191
Product Size:	120 count	Lot Number:	OPNCS1070924
Production Date:	07/09/2024	Capsule Batch #:	OPNCSLL0224AR
Report Date:	07/09/2024	Capsule Material:	Acid Resistant
Best By Date:	07/2027	Capsule Size	Size 00
Appearance:	Bright Yellow with specs powder in a clear Capsule	Capsule Color:	Clear
Other Ingredients:	Microcrystalline Cellulose 101, Silicon Dioxide, Stearic acid		

Organoleptic Testing Results:

Test	Specification	Result	Pass/Fail
Color	Org. Tube # 2067	Conforms	Pass
Smell	Org. Tube # 2067	Conforms	Pass

Physical Testing Results:

Test	Specification	Result	Pass/Fail
Capsule Fill Weight	≥700mg/capsule	710mg/capsule	Pass
Capsule Mass Test	USP <2091> Test 1	830mg/capsule	Pass

Ingredients

Ingredient Name	Content	Raw Material Batch #	Raw Material Spec #
Apigenin	25mg/capsule	APN0570723	284_v1
Nicotinamide Mononucleotide	100mg/capsule	NMN0250923A	201_v4
NADH	5mg/capsule	NADH0090123	299_v2
Trimethyl Glycine - Betaine HCl	250mg/capsule	BET0090423	298_v2
Nicotinamide Riboside	100mg/capsule	NMR0570322	288
Quercetin	125mg/capsule	QRG0140423/ QRH0140622/QRG0141222	272_v2

Analytical Testing

Test	Method	Methodology	Specification	Result	Pass/Fail
Identity Apigenin (<i>Citrus aurantium</i> , Fruit)	LAB TM-001	FTIR	Matches to Reference Material	Conforms	Pass
Identity - Nicotinamide mononucleotide (NMN)	LAB TM-001	FTIR	≥95%	98% Match	Pass
Identity NADH	LAB TM-001	FTIR	≥95%	Conforms to Reference Standard	Pass
Identity Betaine HCl	LAB TM-001	FTIR	≥95%	100% Match	Pass
Identity Nicotinamide Riboside	LAB TM-001	FTIR	≥95% match	99% match	Pass
Identity Quercetin	LAB TM-001	FTIR	Conforms to Reference Standard	Conforms	Pass
Assay - Apigenin (dry basis)	LAB TM-190	LC-MS	≥ 25mg/capsule	26.8mg/capsule	Pass
Assay - NMN (Dry Basis)	LAB TM-118	UV-Vis	≥ 100mg/capsule	109mg/capsule	Pass
Assay - β-nicotinamide adenine dinucleotide disodium salt (dry basis)	TM0041	HPLC	≥5mg/capsule	5.5mg/capsule	Pass
Assay - sodium	ICP-MS Metals - USP <730> Apex Metals-011/Metals-008	ICP/ICPMS	≥0.33mg/capsule	0.36mg/capsule	Pass
Assay - Betaine HCl (as is basis)	TM0050/HPLC	HPLC	≥ 250mg/capsule	254.4mg/capsule	Pass
Assay - Nicotinamide Riboside (as is)	TM0042	HPLC	≥ 100mg/capsule	104mg/capsule	Pass

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Test	Method	Methodology	Specification	Result	Pass/Fail
Assay -Quercetin (as is basis)	LAB TM-120	UPLC	≥125mg/capsule	138mg/capsule	Pass
Heavy Metals	ICP-MS Metals - USP <233>/<730> Apex Metals-011/Metals-008	ICP/ICPMS	< 0.5 ppm ea.	As 0.124 ppm Cd 0.049 ppm Hg 0.013 ppm Pb 0.045 ppm	Pass
Water Activity	LAB TM-012	Water Activity	< 0.73	0.22	Pass

Final Approval



Kennedy Enoch, Quality Liaison

