

To Capita Marketing Ltd.  
170-12868 Clarke Place  
Richmond, BC V6V 2H1 Canada

**REPORT #:** 1873250

**Sample Number:** 5027955

**DATE:** 2024-01-26

**RECEIVED:** 2024-01-18

**MITSUWA OCEAN BLUE NMN; Lot #: JAN EXP.DATE:17.01.2027**

Test	Specification	Test Result	Method	Date	Loc.
<b>Loss on Drying</b>			SOP6_18		
LOSS ON DRYING	< 7 %	0.0600 %		2024-01-22	EDM
<b>Nicotinamide</b>			CLIENTS_METHOD_HPLC UV		
NICOTINAMIDE MONONUCLEOTIDE NMN ID	160 ≤ Result ≤ 240 mg/capsule	199 mg/capsule		2024-01-24	EDM
<b>USP&lt;467&gt; Residual Solvents</b>	Equal to Positive	Positive	SOP6_571_CLASSES	2024-01-24	EDM
BENZENE	N/A	MQL <2.0 ppm		2024-01-22	EDM
CARBON TETRACHLORIDE	N/A	MQL <4.0 ppm		2024-01-22	EDM
1,2-DICHLOROETHANE	N/A	MQL <5.0 ppm		2024-01-22	EDM
1,1-DICHLOROETHENE	N/A	MQL <8.0 ppm		2024-01-22	EDM
1,1,1-TRICHLOROETHANE	N/A	MQL <1500 ppm		2024-01-22	EDM
ACETONITRILE	N/A	MQL <410 ppm		2024-01-22	EDM
CHLOROBENZENE	N/A	MQL <360 ppm		2024-01-22	EDM
CHLOROFORM	N/A	MQL <60.0 ppm		2024-01-22	EDM
CUMENE	N/A	MQL <70.0 ppm		2024-01-22	EDM
CYCLOHEXANE	N/A	MQL <3880.0 ppm		2024-01-22	EDM
1,2-DICHLOROETHENE	N/A	MQL <1870.0 ppm		2024-01-22	EDM
1,2-DIMETHOXYETHANE	N/A	MQL <100.0 ppm		2024-01-22	EDM
N,N-DIMETHYLACETAMIDE	N/A	MQL <1090.0 ppm		2024-01-22	EDM
N,N-DIMETHYLFORMAMIDE	N/A	MQL <880.0 ppm		2024-01-22	EDM
1,4-DIOXANE	N/A	MQL <380.0 ppm		2024-01-22	EDM
2-ETHOXYETHANOL	N/A	MQL <160.0 ppm		2024-01-22	EDM
ETHYLENE GLYCOL	N/A	MQL <620.0 ppm		2024-01-22	EDM
FORMAMIDE	N/A	MQL <220.0 ppm		2024-01-22	EDM
HEXANE	N/A	MQL <290.0 ppm		2024-01-22	EDM
METHANOL	N/A	MQL <3000.0 ppm		2024-01-22	EDM

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2-METHOXYETHANOL	N/A	MQL <50.0 ppm		2024-01-22	EDM
METHYLBUTYLKETONE	N/A	MQL <50.0 ppm		2024-01-22	EDM
METHYLCYCLOHEXANE	N/A	MQL <1180.0 ppm		2024-01-22	EDM
METHYLENE CHLORIDE	N/A	MQL <600.0 ppm		2024-01-22	EDM
METHYLISOBUTYLKETONE	N/A	MQL <4500.0 ppm		2024-01-22	EDM
N-METHYLPYRROLIDONE	N/A	MQL <530.0 ppm		2024-01-22	EDM
NITROMETHANE	N/A	MQL <50.0 ppm		2024-01-22	EDM
PYRIDINE	N/A	MQL <200.0 ppm		2024-01-22	EDM
SULFOLANE	N/A	MQL <160.0 ppm		2024-01-22	EDM
TETRAHYDROFURAN	N/A	MQL <720.0 ppm		2024-01-22	EDM
TETRALIN	N/A	MQL <100.0 ppm		2024-01-22	EDM
TOLUENE	N/A	MQL <890.0 ppm		2024-01-22	EDM
TRICHLOROETHYLENE	N/A	MQL <80.0 ppm		2024-01-22	EDM
XYLENE	N/A	MQL <2170.0 ppm		2024-01-22	EDM
ACETIC ACID	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ACETONE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ANISOLE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
1-BUTANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
2-BUTANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
BUTYL ACETATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
TERT-BUTYLMETHYL ETHER	N/A	MQL <5000.0 ppm		2024-01-22	EDM
DIMETHYL SULFOXIDE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ETHANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ETHYL ACETATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ETHYL ETHER	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ETHYL FORMATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
FORMIC ACID	N/A	MQL <5000.0 ppm		2024-01-22	EDM
HEPTANE	N/A	MQL <5000.0 ppm		2024-01-22	EDM

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ISOBUTYL ACETATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
ISOPROPYL ACETATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
METHYL ACETATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
3-METHYL-1-BUTANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
METHYLETHYLKETONE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
2-METHYL-1-PROPANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
PENTANE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
1-PENTANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
1-PROPANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
2-PROPANOL	N/A	MQL <5000.0 ppm		2024-01-22	EDM
PROPYL ACETATE	N/A	MQL <5000.0 ppm		2024-01-22	EDM
<b>Weight Variation</b>			USP_2091		
AVERAGE FILL WEIGHT	N/A	200 mg		2024-01-25	EDM
AVERAGE GROSS WEIGHT	N/A	258 mg		2024-01-25	EDM
PASS/FAIL	N/A	Pass		2024-01-25	EDM
<b>MICRO</b>					
TOTAL PLATE COUNT	< 3000 CFU/g	<10 CFU/g	SOP_6_503_A	2024-01-23	EDM
YEAST & MOLD	< 100 CFU/g	<10 CFU/g	SOP_6_503_A	2024-01-23	EDM
S. AUREUS	Equal to Negative	Negative	SOP_6_503_A	2024-01-23	EDM
SALMONELLA	Equal to Negative	Negative	SOP_6_503_A	2024-01-23	EDM
E. COLI	Equal to Negative	Negative	SOP_6_503_A	2024-01-23	EDM
<b>Disintegration</b>			USP_2040		
DISINTEGRATION	N/A	6 min		2024-01-23	EDM
<b>Organoleptic Description</b>			VISUAL		
COLOUR	Equal to white to off-white powder	white to off-white powder		2024-01-23	EDM
APPEARANCE	Equal to two-piece clear hard capsule	two-piece clear hard capsule		2024-01-23	EDM

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<b><u>Capsule Weight</u></b>					
SERVING SIZE	N/A	194.86 mg		2024-01-19	EDM
<b><u>Heavy Metals</u></b>					
ARSENIC	N/A	<0.0300 ppm	SOP6_358	2024-01-26	EDM
CADMIUM	N/A	<0.0200 ppm		2024-01-26	EDM
LEAD	N/A	<0.0200 ppm		2024-01-26	EDM
MERCURY	N/A	<0.0200 ppm		2024-01-26	EDM
<b><u>USP&lt;561&gt; Pesticide Residues</u></b>					
ACEPHATE	N/A	MQL <0.1 ppm	USP_561	2024-01-25	EDM
ALACHLOR	N/A	MQL <0.05 ppm		2024-01-25	EDM
ALDRIN & DIELDRIN	N/A	MQL <0.05 ppm		2024-01-25	EDM
AZINPHOS-ETHYL	N/A	MQL <0.1 ppm		2024-01-25	EDM
AZINPHOS-METHYL	N/A	MQL <1 ppm		2024-01-25	EDM
BROMOPHOS-ETHYL	N/A	MQL <0.05 ppm		2024-01-25	EDM
BROMOPHOS-METHYL	N/A	MQL <0.05 ppm		2024-01-25	EDM
BROMOPROPYLATE	N/A	MQL <3 ppm		2024-01-25	EDM
CHLORDANE	N/A	MQL <0.05 ppm		2024-01-25	EDM
CHLORFENVINPHOS	N/A	MQL <0.5 ppm		2024-01-25	EDM
CHLORPYRIPHOS-ETHYL	N/A	MQL <0.2 ppm		2024-01-25	EDM
CHLORPYRIPHOS-METHYL	N/A	MQL <0.1 ppm		2024-01-25	EDM
CHLORTHAL-DIMETHYL	N/A	MQL <0.01 ppm		2024-01-25	EDM
CYFLUTHRIN	N/A	MQL <0.1 ppm		2024-01-25	EDM
LAMBDA-CYHALOTHRIN	N/A	MQL <1 ppm		2024-01-25	EDM
CYPERMETHRIN AND ISOMERS	N/A	MQL <1 ppm		2024-01-25	EDM
DDT	N/A	MQL <1 ppm		2024-01-25	EDM
DELTAMETHRIN	N/A	MQL <0.5 ppm		2024-01-25	EDM
DIAZINON	N/A	MQL <0.5 ppm		2024-01-25	EDM

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DICHOFLUANID	N/A	MQL <0.1 ppm		2024-01-25	EDM
DICHLORVOS	N/A	MQL <1 ppm		2024-01-25	EDM
DICOFOL	N/A	MQL <0.5 ppm		2024-01-25	EDM
DIMETHOATE AND OMETHOATE	N/A	MQL <0.1 ppm		2024-01-25	EDM
ENDOSULFAN	N/A	MQL <3 ppm		2024-01-25	EDM
ENDRIN	N/A	MQL <0.05 ppm		2024-01-25	EDM
ETHION	N/A	MQL <2 ppm		2024-01-25	EDM
ETRIMPHOS	N/A	MQL <0.05 ppm		2024-01-25	EDM
FENCHLOROPHOS	N/A	MQL <0.1 ppm		2024-01-25	EDM
FENITROTHION	N/A	MQL <0.5 ppm		2024-01-25	EDM
FENPROPATHRIN	N/A	MQL <0.03 ppm		2024-01-25	EDM
FENSULFOTHION	N/A	MQL <0.05 ppm		2024-01-25	EDM
FENTHION	N/A	MQL <0.05 ppm		2024-01-25	EDM
FENVALERATE	N/A	MQL <1.5 ppm		2024-01-25	EDM
FLUCYTHRINATE	N/A	MQL <0.05 ppm		2024-01-25	EDM
T-FLUVALINATE	N/A	MQL <0.05 ppm		2024-01-25	EDM
FONOPHOS	N/A	MQL <0.05 ppm		2024-01-25	EDM
HEPTACHLOR	N/A	MQL <0.05 ppm		2024-01-25	EDM
HEXACHLORBENZENE	N/A	MQL <0.1 ppm		2024-01-25	EDM
HEXACHLOROCYCLOHEXANE	N/A	MQL <0.3 ppm		2024-01-25	EDM
LINDAN	N/A	MQL <0.6 ppm		2024-01-25	EDM
MALATHION & MALAOXON	N/A	MQL <1 ppm		2024-01-25	EDM
MECARBAM	N/A	MQL <0.05 ppm		2024-01-25	EDM
METHACRIPHOS	N/A	MQL <0.05 ppm		2024-01-25	EDM
METHAMIDOPHOS	N/A	MQL <0.05 ppm		2024-01-25	EDM
METHIDATHION	N/A	MQL <0.2 ppm		2024-01-25	EDM
METHOXYCHLOR	N/A	MQL <0.05 ppm		2024-01-25	EDM

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MIREX	N/A	MQL <0.01 ppm		2024-01-25	EDM
MONOCROTOPHOS	N/A	MQL <0.1 ppm		2024-01-25	EDM
PARATHION-ETHYL AND PARAOXON-ETHYL	N/A	MQL <0.5 ppm		2024-01-25	EDM
PARATHION-METHYL AND PARAOXON-METHYL	N/A	MQL <0.2 ppm		2024-01-25	EDM
PENDIMETHALIN	N/A	MQL <0.1 ppm		2024-01-25	EDM
PENTACHLORANISOLE	N/A	MQL <0.01 ppm		2024-01-25	EDM
PERMETHRIN	N/A	MQL <1 ppm		2024-01-25	EDM
PHOSALONE	N/A	MQL <0.1 ppm		2024-01-25	EDM
PHOSMET	N/A	MQL <0.05 ppm		2024-01-25	EDM
PIPERONYL BUTOXIDE	N/A	MQL <3 ppm		2024-01-25	EDM
PIRIMIPHOS-ETHYL	N/A	MQL <0.05 ppm		2024-01-25	EDM
PIRIMIPHOS-METHYL	N/A	MQL <4 ppm		2024-01-25	EDM
PROCYMIDONE	N/A	MQL <0.1 ppm		2024-01-25	EDM
PROFENOPHOS	N/A	MQL <0.1 ppm		2024-01-25	EDM
PROTHIOPHOS	N/A	MQL <0.05 ppm		2024-01-25	EDM
PYRETHRUM	N/A	MQL <3 ppm		2024-01-25	EDM
QUINALPHOS	N/A	MQL <0.05 ppm		2024-01-25	EDM
QUINTOZENE	N/A	MQL <1 ppm		2024-01-25	EDM
S-421	N/A	MQL <0.02 ppm		2024-01-25	EDM
TECNAZENE	N/A	MQL <0.05 ppm		2024-01-25	EDM
TETRADIFON	N/A	MQL <0.3 ppm		2024-01-25	EDM
VINCLOZOLIN	N/A	MQL <0.4 ppm		2024-01-25	EDM
RECOVERY D10-PARATHION AT 0.1PPM	N/A	85.0 %		2024-01-25	EDM

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**References**

HPLC-UV (Client's method)  
SOP 6\_503\_A Modified from USP <2021>/<2022> and validated on 2018-12-21  
Unless reported on this Certificate of Analysis, suitability testing is not performed.  
SOP 6\_571: GC-MS, Class I: Benzene to 1,1,1-Trichloroethene, Class II: Acetonitrile to Xylene, Class III: Acet acid to Propyl acetate  
SOP6\_18: Loss on Drying by Oven/Ash Content  
SOP6\_358: ICP-MS based on USP <232>/<233>  
USP <2091>  
USP <561> Articles of Botanical Origin: Pesticide Residue Analysis by GC-MS/FPD/ECD according to SOP 6\_48/37/158 based on USP <561>  
USP<2040>  
Visual

**Testing Locations:**

EDM: Labstat dba Labs-Mart Edmonton

Prepared by   
Julie Harrison, Account Manager

Approved by   
Trang Nguyen, QC Specialist

Date 2024-01-26

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