

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

Product Information			
Product Name:	Immune Defense Capsules	CoA #:	ND-25-700
Product Size:	60 count	Lot Number:	IMDCS1101624A
Production Date:	10/16/2024	Capsule Batch #:	IMDCSLL1024VEGG
Report Date:	10/16/2024	Capsule Material:	Vegetable Capsules
Best By Date:	10/2027	Capsule Size:	Size 00
Appearance:	Light Brown, Gray Powder in a capsule with a green cap and clear body	Capsule Color:	Green and Clear
Other Ingredients:	Microcrystalline Cellulose		

Organoleptic Testing Results:

Test	Specification	Result	Pass/Fail
Color	Org. Tube # 1039	Conforms	Pass
Smell	Org. Tube # 1039	Conforms	Pass

Physical Testing Results:

Test	Specification	Result	Pass/Fail
Capsule Fill Weight	≥718mg/capsule	705.7mg/capsule	Pass
Capsule Mass Test	USP <2091> Test 1	844mg/capsule	Pass

Ingredients

Ingredient Name	Content	Raw Material Batch #	Raw Material Spec #
Black Seed Extract (5% Thymoquinone)	50mg/capsule	NGS0140824	237
Sucrosomial Zinc	10mg/capsule	SZN0191024	131_v3
Functional yeast extract	250mg/capsule	YST0450123	213_v1
Oleamide	50mg/capsule	OLE0401121	135
Palmitoylethanolamide Micronized	100mg/capsule	PEA0160923B	085
Tyrosol	5mg/capsule	TYS0430324	092
Red Reishi 16:1 Mushroom Extract	50mg/capsule	LG160570321	212
Turkey Tail 8:1 Mushroom Extract	150mg/capsule	TVC80570324	059_v7

Analytical Testing

Test	Method	Methodology	Specification	Result	Pass/Fail
Identity - Black Seed Extract (5% Thymoquinone)	LAB TM-051	HPTLC	Sample Bands Match Reference Bands	Conforms	Pass
Identity- Sucrosomial Zinc	LAB TM-001	FTIR	Matches to Reference Material	Conforms	Pass
Identity - Functional yeast extract	LAB TM-091	HPTLC	Matches to Reference Standard	Conforms	Pass
Identity - Oleamide	LAB TM-001	FTIR	≥95%	98% match	Pass
Identity- Palmitoylethanolamide Micronized	LAB TM-001	FTIR	≥95%	98%	Pass
Identity - Tyrosol	LAB TM-001	FTIR	≥95%	99%	Pass
Identity - Red Reishi 16:1 Mushroom Extract	LAB TM-079	HPTLC	Sample Bands Match Reference Bands	Conforms	Pass
Identity- Turkey Tail 8:1 Mushroom Extract	LAB TM-069	HPTLC	Matches to BRM	Conforms	Pass
Assay - Thymoquinone Assay	UPLC	UPLC	≥ 2.5mg/capsule	3mg/capsule	Pass
Assay - Yeast Extract (β-Glucans)	LAB TM-078	Megazyme	≥ 125mg/capsule	195.2mg/capsule	Pass
Assay -Palmitoylethanolamide Micronized	1H qNMR	1H qNMR	≥100mg/capsule	101.9mg/capsule	Pass
Assay - Tyrosol	LAB TM-042	UPLC	≥ 5mg/capsule	5.4mg/capsule	Pass
Assay - Red reishi (β-Glucans)	LAB TM-078	Megazyme	≥ 7.5mg/capsule	33.1mg/capsule	Pass
Assay - Red reishi (α-Glucans)	LAB TM-078	Megazyme	≤ 2.5mg/capsule	1.6mg/capsule	Pass



Certificate of Analysis

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Test	Method	Methodology	Specification	Result	Pass/Fail
Assay - Turkey Tail (β -Glucans)	LAB TM-078	Fluorescence	$\geq 45\text{mg/capsule}$	79.6mg/capsule	Pass
Assay - Turkey Tail (α -Glucans)	LAB TM-078	Fluorescence	Report Only	18mg/capsule	Pass
Heavy Metals	ICP-MS Metals - USP <233>/<730> Apex Metals-011/Metals-008	ICP/ICPMS	< 0.5 ppm ea.	As 0.1009 ppm Cd 0.0427 ppm Hg 0.0114 ppm Pb 0.0654 ppm	Pass
Water Activity	LAB TM-012	Water Activity	< 0.73	0.20	Pass

Final Approval

Kennedi Enoch, Quality Liaison

