



RAW Forest Foods
11 Elmwood Avenue, Suite 102
Burlington, VT 05402

Complete Certificate of Analysis

Batch Number 14211
Product Lot Code 14211
Report Date 2/5/2024

Product Description	
Product Name	Twelve Rivers Functional Mushroom MycoMedic Elixir Tincture
Country of Manufacture	USA
Manufacture Date (MFD)	January 2024
Expiration Date	N/A
Composition	Liquid Extract
End Volume (Gallons)	30.82
Bottles (2 Ounce)	271
Bottles (4 Ounce)	851

Active Ingredients				
Material (Common) Name	Botanical Name	Plant Part	Formula	Extraction
Chaga (Bai Hua Rong)	<i>Inonotus obliquus</i>	Fruiting Body	12.500%	1:2
Cordyceps (Dong Chong)	<i>Cordyceps militaris</i>	Fruiting Body	12.500%	1:2
Fu Shen	<i>Wolfiporia extensa</i>	Sclerotium	12.500%	1:2
Maitake (Ling Zhi Wu Rong / Hen of the Woods)	<i>Grifola frondosa</i>	Fruiting Body	12.500%	1:2
Reishi (Ling Zhi)	<i>Ganoderma lucidum</i>	Fruiting Body	12.500%	1:2
Royal Sun Agaricus (Ji Song Rong)	<i>Agaricus blazei</i> Murrill	Whole Mushroom	12.500%	1:2
Turkey Tail (Yun Zhi / Cloud Mushroom)	<i>Trametes versicolor</i>	Whole Mushroom	12.500%	1:2
Willow Bracket (Sang Huang / Mesima)	<i>Phellinus igniarius</i>	Fruiting Body	12.500%	1:2
Warm Citrus Essential Oil Blend	<i>Cinnamomum zeylanicum</i> , <i>Elettaria cardamomum</i> , <i>Zingiber officinale</i> Roscoe, <i>Myristica fragrans</i> , <i>Pimenta officinalis</i> , <i>Styrax benzoin</i> , <i>Illicium verum</i> , <i>Citrus sinensis</i> , and <i>Piper nigrum</i>	Varies	0.185%	Mechanical and/or steam distillation (hexane free)


Inactive Ingredients				
Material (Common) Name	Botanical Name	Plant Part	Formula	Extraction
Purified Water (7 Stage RO Filtration)	N/A	N/A	59.815%	N/A
Vegetable Alcohol (Certified Gluten-Free)	N/A	N/A	40.000%	N/A

Description	Specifications	Method/Standards	Results
Flavor	Earthy, Mushroom, Alcohol, Characteristic of Chai	Organoleptic	Conforms
Odor	Earthy, Alcohol, Characteristic of Chai	Organoleptic	Conforms
Appearance	Brownish- Yellow, Opaque/Some Visible Sediment	Organoleptic	Conforms
Density	0.883 - 0.997 (g/mL)	Volumetric Flask	0.939 (g/mL)
pH	4.36 - 4.82	pH Meter	4.54
ID (FTIR)	Report 1188659-3	FTIR	Add to Library / Matches Reference

Heavy Metal Tests	Specifications	Method/Standards	Results (3rd Party Report ID 24EA0131-007)
Arsenic: As (mg/kg or ppm)	NMT 1.5 ppm	ICP-MS	0.029 ppm
Cadmium: Cd (mg/kg or ppm)	NMT 0.5 ppm	ICP-MS	<LOQ
Lead: Pb (mg/kg or ppm)	NMT 1.0 ppm	ICP-MS	0.022 ppm
Mercury: Hg (mg/kg or ppm)	NMT 1.5 ppm	ICP-MS	<LOQ

Microbial Analysis	Specifications	Method/Standards	Results (3rd Party Report ID 24EA0131-007)
Total Aerobic Count	NMT 10,000 CFU/g	Petrifilm / qPCR	<20 CFU/g
Yeast & Mold Count	NMT 1,000 CFU/g	Petrifilm / qPCR	<40 CFU/g
Escherichia coli	NMT 100 CFU/g	Petrifilm / qPCR	Absent / 10g
<i>Salmonella spp.</i>	Absent / 10g	Petrifilm / qPCR	Absent / 10g
Coliform Bacteria	NMT 100 CFU/g	Petrifilm / qPCR	<20 CFU/g
<i>Staphylococcus aureus</i>	Absent / 10g	Petrifilm / qPCR	Absent / 10g
<i>Pseudomonas aeruginosa</i>	NMT 10 CFU/g	Petrifilm / qPCR	Absent / 10g

Safety Hazard
Keep away from eyes.


11 Elmwood Avenue, Suite 102
Burlington, VT 05402
(802) 349-1768
ryan@rawforestfoods.com

Authorized By: Ryan Wade Date: 2/5/2024 Approved: Rejected:

COMPLETE CERTIFICATE OF ANALYSIS

DATE: January 2024
PRODUCT NAME: Twelve Rivers Myco Medic
BATCH NUMBER: 14211
LOT CODE: 14211
MANUFACTURING DATE: 01/2024
COMPOSITION: Liquid Extract
END VOLUME: 30.82 Gallons
BOTTLES: 271 2oz, 851 4oz

ACTIVE INGREDIENTS:

Chaga Mushroom Powder (Inonotus obliquus), Cordyceps Mushroom Powder (Militaris), Poria cocos (Wolfiporia extensa), Maitake Mushroom (Grifola frondosa), Reishi Mushroom (Ganoderma lucidum), Agaricus Mushroom Powder (Agaricus blazei), Wild Willow Bracket (Phellinus ignaiarius), Turkey Tail Mushroom Powder (Coriolus versicolor), Chai Spice Essential Oil

OTHER INGREDIENTS:

Alcohol, Water

<u>Test</u>	<u>Specification</u>	<u>Result</u>	<u>Method Used</u>
Flavor:	Earthy, Mushroom, Alcohol, Characteristic of Chai	Conforms	Organoleptic
Odor:	Earthy, Alcohol, Characteristic of Chai	Conforms	Organoleptic
Appearance:	Brownish- Yellow, Opaque Some Visible Sediment	Conforms	Organoleptic
Density:	0.883 - 0.997 g/ml	0.939 g/ml	Volumetric Flask
pH:	4.36 - 4.82	4.54	pH Meter
Total Plate Count:	NMT 10,000 CFU/g	<20 CFU/g*	Petrifilm/qPCR
Yeast & Mold:	NMT 1,000 CFU/g	<40 CFU/g*	Petrifilm/qPCR
E. Coli:	NMT 100 cfu/g	Absent/10g*	Petrifilm/qPCR
Salmonella:	Absent/10g	Absent/10g*	Petrifilm/qPCR
Coliforms:	NMT 100 cfu/g	<20 CFU/g*	Petrifilm/qPCR
Staph. Aureus:	Absent/10g	Absent/10g*	Petrifilm/qPCR
P. aeruginosa	NMT 10 cfu/g	Absent/10g*	Petrifilm/qPCR
Arsenic:	NMT 1.5 ppm	0.029 ppm*	ICP-MS
Cadmium:	NMT 0.5 ppm	<LOQ*	ICP-MS
Lead:	NMT 1.0 ppm	0.022 ppm*	ICP-MS
Mercury:	NMT 1.5 ppm	<LOQ*	ICP-MS
ID:	Establish	Add to Library**	FTIR

*Report# 24EA0131-007 **Report# 1188659-3

SAFETY HAZARD: Keep away from eyes.

Note: Some natural variations may occur

Date: 02/05/2024