

Rad One LTD

Claudia Armstead
32 Barnmead
Haywards, UNITED KINGDOM RH16 1UZ

ANALYTICAL REPORT

AR-23-JL-066019-01

Client Code: JL0000651
PO#: PO-0265_Lion's Mane

Received On: 08Dec2023
Reported On: 29Dec2023

Eurofins Sample Code:	990-2023-12080264	Sample Registration Date: 08Dec2023			
Client Sample Code:	Lot# LM0029-331-3A, LM0029-332-3A	Condition Upon Receipt: acceptable, 20.6°C			
Sample Description:	Lion's Mane Mushroom Extract	Sample Reference:			
FS014 - Heavy Metals USP 233		Reference USP 233 Mod.	Accreditation	Completed 15Dec2023	Sub 1
Parameter	Result	Result	Theoretical		
Arsenic	15.9 ppb				
Cadmium	38.1 ppb				
Lead	11.5 ppb				
Mercury	<5 ppb				
FS05M - Organoleptic Evaluation		Reference Internal Method based on USP 25th ed. pg 2363	Accreditation	Completed 15Dec2023	Sub 1
Parameter	Result	Result	Theoretical		
Appearance	Clear capsule with brown mottled fill				
Characteristic Odor	Faint uncharacterized odor				
Package Appearance	Black plastic commerical container				
FS0A2 - Beta Glucan (Megazyme K-YBGL Kit)		Reference Megazyme K-YBGL	Accreditation	Completed 15Dec2023	Sub 1
Parameter	Result	Result	Theoretical		
Beta Glucan	45.3 %				
Method Reference	Megazyme Kit K-YBGL				
FSMRB - Mycotoxins		Reference Anal.Bioanal.Chem. (2012) 402:2675-2681	Accreditation	Completed 19Dec2023	Sub 1
Parameter	Result	Result	Theoretical		
Aflatoxin B1	<0.500 ppb				
Aflatoxin B2	<0.500 ppb				

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FSMRB - Mycotoxins		Reference	Accreditation	Completed	Sub
		Anal.Bioanal.Chem. (2012) 402:2675-2681		19Dec2023	1
Parameter	Result	Result	Theoretical		
Aflatoxin G1	<0.500 ppb				
Aflatoxin G2	<0.500 ppb				
Aflatoxin M1	<0.500 ppb				
Aflatoxin M2	<0.500 ppb				
Deoxynivalenol	<100 ppb				
Fumonisin B1	<25.0 ppb				
Fumonisin B2	<25.0 ppb				
HT-2 Toxin	<100 ppb				
Ochratoxin A	<1.00 ppb				
Sum of Aflatoxins B1,B2,G1,G2	<2.00 ppb				
T-2 Toxin	<10.0 ppb				
Zearalenone	<30.0 ppb				

JLPT1 - Total Microbial Count Suitability USP Chapter 2021	Reference USP <2021>			Completed 10Dec2023
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Parameter	Result	Result	Theoretical
Total Aerobic Microbial Count	PASS		

JLPT4 - Bile Tolerant Gram Negative Suitability USP Ch 2021	Reference USP <2021>			Completed 15Dec2023
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Parameter	Result	Result	Theoretical
Bile Tolerant Gram Negative Bacteria	PASS		

JLPT8 - Total Combined Mould-Yeast Suitability USP Ch 2021	Reference USP <2021>			Completed 13Dec2023
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Parameter	Result	Result	Theoretical
Total Combined Yeast-Molds Count	PASS		

UM70J - Total Combined Yeasts/Moulds Count - USP Chapter <2021>	Reference U.S. Pharmacopeia Chapter 2021	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 13Dec2023
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Parameter	Result	Result	Theoretical
Total Combined Yeasts/Moulds Count	< 10 cfu/g	< 10 cfu/g	

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Sample Description:	Lion's Mane Mushroom Extract	Sample Reference:	

ZMCKU - E. coli - USP <2022>	Reference USP <2022>	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 11Dec2023
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Parameter	Result	Result	Theoretical
E. coli	Not Detected per 10 g	Not Detected per 10 g	

ZMCLR - Escherichia coli Suitability - USP Chapter <2022>	Reference U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 11Dec2023
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Parameter	Result	Result	Theoretical
Escherichia coli Suitability	PASS per sample	PASS per sample	

ZMCLT - Pseudomonas aeruginosa Suitability - USP Chapter <62>	Reference U.S. Pharmacopeia Chapter 62	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 10Dec2023
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Parameter	Result	Result	Theoretical
Pseudomonas aeruginosa Suitability	PASS per sample	PASS per sample	

ZMCLY - Salmonella spp. Suitability - USP Chapter <2022>	Reference U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 29Dec2023
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Parameter	Result	Result	Theoretical
Salmonella spp. Suitability	PASS per sample	PASS per sample	

ZMCM4 - Staphylococcus aureus Suitability - USP Chapter <2022>	Reference U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 10Dec2023
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Parameter	Result	Result	Theoretical
Staphylococcus aureus Suitability	PASS per sample	PASS per sample	

ZMDFK - Total Aerobic Microbial Count - USP Chapter <2021>	Reference U.S. Pharmacopeia Chapter 2021	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 10Dec2023
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Parameter	Result	Result	Theoretical
Total Aerobic Microbial Count	4,700 cfu/g	4,700 cfu/g	

ZMDGE - Staphylococcus aureus - USP Chapter <2022>	Reference U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 10Dec2023
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Parameter	Result	Result	Theoretical
Staphylococcus aureus	Not Detected per g	Not Detected per g	

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ZMDHV - Pseudomonas aeruginosa - USP Reference Chapter <62>	U.S. Pharmacopeia Chapter 62	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 11Dec2023
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Parameter	Result	Result	Theoretical
Pseudomonas aeruginosa	Not Detected per g	Not Detected per g	

ZME88 - Bile-Tolerant Gram Negative Bacteria (Semiquanti) - USP Chapter <2021>	U.S. Pharmacopeia Chapter 2021	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 15Dec2023
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Parameter	Result	Result	Theoretical
Bile-Tolerant Gram Negative Bacteria (Semiquanti)	<10 MPN per g	<10 MPN per g	

ZMEV2 - Salmonella - USP Chapter <2022>	U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 29Dec2023
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Parameter	Result	Result	Theoretical
Salmonella spp.	Not Detected per 10 g	Not Detected per 10 g	

Subcontracting partners:

1 - Eurofins Food Chemistry Testing US Madison, Wisconsin

Respectfully Submitted,



E. Schmitt

Emily Schmitt
Analytical Services Manager

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