

Eurofins Microbiology Lab Madison

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Rad One LTD

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Haywards, UNITED KINGDOM RH16 1UZ

ANALYTICAL REPORT

AR-23-JL-065769-02
Report Supersedes AR-23-JL-065769-01

Client Code: JL0000651
PO#: 500mg Meriva_PO-0262

Received On: 08Dec2023
Reported On: 25Jan2024

Eurofins Sample Code:	990-2023-12080272	Sample Registration Date: 08Dec2023			
Client Sample Code:	LOT# ME9732-325-2A	Condition Upon Receipt: acceptable, 20.5°C			
Sample Description:	Meriva Curcumin Phytosome 500mg	Sample Reference:			
FS014 - Heavy Metals	USP 233	Reference USP 233 Mod.	Accreditation	Completed 15Dec2023	Sub 2
Parameter		Result	Result	Theoretical	
Arsenic		<10.0 ppb			
Cadmium		11.0 ppb			
Lead		31.6 ppb			
Mercury		<5.00 ppb			
FS05M - Organoleptic Evaluation		Reference Internal Method based on USP 25th ed. pg 2363	Accreditation	Completed 15Dec2023	Sub 2
Parameter		Result	Result	Theoretical	
Appearance		Clear capsule with orange clumping powder fill			
Characteristic Odor		Faint uncharacterized odor			
Package Appearance		Black plastic commercial container			
M9027 - Total Curcuminoids		Reference Internal method	Accreditation	Completed 27Dec2023	Sub 3
Parameter		Result	Result	Theoretical	
Bis-Desmethoxy Curcumin		3,630 µg/g	3,630 µg/g		
Curcumin		150,000 µg/g			
Desmethoxy Curcumin		32,400 µg/g			
Total Curcuminoids		186,000 µg/g			
QA0SW - Dithiocarbamates by LC-MS/MS per USP <561>		Reference Anal Bioanal Chem, 2008,392(5), 969-978.Modified.	Accreditation	Completed 15Dec2023	Sub 1

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Parameter	Result	Result	Theoretical	
Dithiocarbamates (as CS2)	<2.00 mg/kg			
QA0SY - Bromide, inorganic (GC-MS) <USP 561>		Reference EURL-SRM, Bromine Containing Fumigants	Accreditation	Completed 15Dec2023
Parameter	Result	Result	Theoretical	
Total Inorganic Bromide	<125 mg/kg			
QA0SZ - Pesticides <USP 561> (LC-MS/MS and GC-MS/MS)		Reference USP 561	Accreditation	Completed 15Dec2023
Parameter	Result	Result	Theoretical	
Acephate	<0.1 mg/kg			
Alachlor	<0.05 mg/kg			
Aldrin and dieldrin (sum of)	<0.05 mg/kg			
Azinphos-ethyl	<0.1 mg/kg			
Azinphos-methyl	<1 mg/kg			
Bromophos-ethyl	<0.05 mg/kg			
Bromophos-methyl	<0.05 mg/kg			
Bromopropylate	<3 mg/kg			
Chlordane (sum)	<0.05 mg/kg			
Chlorfenvinphos	<0.5 mg/kg			
Chlorpyrifos	<0.2 mg/kg			
Chlorpyrifos-methyl	<0.1 mg/kg			
Chlorthal-dimethyl	<0.01 mg/kg			
Cyfluthrin I-IV	<0.1 mg/kg			
Cyhalothrin, lambda-	<1 mg/kg			
Cypermethrin I-IV	<1 mg/kg			
DDT (sum)	<1.0 mg/kg			
Deltamethrin	<0.5 mg/kg			
Diazinon	<0.5 mg/kg			
Dichlofluanid	<0.1 mg/kg			
Dichlorvos	<1 mg/kg			
Dicofol, o,p' & p,p'-	<0.5 mg/kg			
Dimethoate and omethoate (sum of)	<0.1 mg/kg			

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QA0SZ - Pesticides <USP 561> (LC-MS/MS and GC-MS/MS)	Reference USP 561	Accreditation	Completed 15Dec2023	Sub 1
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Parameter	Result	Result	Theoretical
Endosulfan (sum)	<3.0 mg/kg		
Endrin	<0.05 mg/kg		
Ethion	<2 mg/kg		
Etrimfos	<0.05 mg/kg		
Fenchlorophos (sum)	<0.1 mg/kg		
Fenitrothion	<0.5 mg/kg		
Fenpropathrin	<0.03 mg/kg		
Fensulfothion (sum)	<0.05 mg/kg		
Fenthion (sum)	<0.05 mg/kg		
Fenvalerate I&II	<1.5 mg/kg		
Flucythrinate I&II	<0.05 mg/kg		
Fluvalinate, tau- I&II	<0.05 mg/kg		
Fonofos	<0.05 mg/kg		
Heptachlor (sum)	<0.05 mg/kg		
Hexachlorobenzene (HCB)	<0.1 mg/kg		
Hexachlorocyclohexane isomers (other than gamma)	<0.3 mg/kg		
Lindane (gamma-HCH)	<0.6 mg/kg		
Malathion and malaoxon (sum of)	<1 mg/kg		
Mecarbam	<0.05 mg/kg		
Methacrifos	<0.05 mg/kg		
Methamidophos	<0.05 mg/kg		
Methidathion	<0.2 mg/kg		
Methoxychlor	<0.05 mg/kg		
Mirex	<0.01 mg/kg		
Monocrotophos	<0.1 mg/kg		
Parathion-ethyl and paraoxon-ethyl (sum of)	<0.5 mg/kg		
Parathion-methyl and paraoxon-methyl (sum of)	<0.2 mg/kg		
Pendimethalin	<0.1 mg/kg		
Pentachloranisole	<0.01 mg/kg		
Permethrin (sum of isomers)	<1 mg/kg		
Phosalone	<0.1 mg/kg		
Phosmet	<0.05 mg/kg		

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QA0SZ - Pesticides <USP 561> (LC-MS/MS and GC-MS/MS)	Reference USP 561	Accreditation	Completed 15Dec2023	Sub 1
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Parameter	Result	Result	Theoretical
Piperonyl butoxide	<3 mg/kg		
Pirimiphos-ethyl	<0.05 mg/kg		
Pirimiphos-methyl (sum)	<4 mg/kg		
Procymidone	<0.1 mg/kg		
Profenofos	<0.1 mg/kg		
Prothiofos	<0.05 mg/kg		
Pyrethrum (total isomers)	<3 mg/kg		
Quinalphos	<0.05 mg/kg		
Quintozene (sum)	<1 mg/kg		
S 421	<0.02 mg/kg		
Tecnazene	<0.05 mg/kg		
Tetradifon	<0.3 mg/kg		
Vinclozolin	<0.4 mg/kg		

QA0T0 - Standard Addition Confirmation <USP561>	Reference No Reference	Accreditation	Completed 15Dec2023	Sub 1
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Parameter	Result	Result	Theoretical
Standard Addition Confirmation	Not Required		

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	

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	

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	< 100 cfu/g	< 100 cfu/g	

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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	

ZMDHV - Pseudomonas aeruginosa - 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	Not Detected per g	Not Detected per g	

ZME88 - Bile-Tolerant Gram Negative Bacteria (Semiquanti) - USP Chapter <2021>	Reference U.S. Pharmacopeia Chapter 2021	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 11Dec2023
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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>	Reference U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 11Dec2023
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Parameter	Result	Result	Theoretical
Salmonella spp.	Not Detected per 10 g	Not Detected per 10 g	

Report Comment:

Rev. 01: Adjusted Client Sample Code from "LOT# ME9732-325-2A, ME9732-324-2A" to "LOT# ME9732-325-2A" per client request.

Subcontracting partners:

- 1 - Eurofins Central Analytical Laboratories, Louisiana
- 2 - Eurofins Food Chemistry Testing US Madison, Wisconsin
- 3 - Eurofins Botanical Testing US Brea, California

Respectfully Submitted,



Michael Kaiser
Associate Technical Leader



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