

Rad One LTD

Claudia Armstead
32 Barnmead
Haywards, UNITED KINGDOM RH16 1UZ

ANALYTICAL REPORT

AR-23-JL-031799-01

Client Code: JL0000651
PO#: Cucurmin 500_PO 0227

Received On: 06Jun2023
Reported On: 22Jun2023

Eurofins Sample Code: 990-2023-06060272
Client Sample Code: MC6923-144-2
Sample Description: MERIVA CURCUMIN
PHYTOSOME 500MG

Sample Registration Date: 06Jun2023
Condition Upon Receipt: atypical, 21.6°C
Sample Reference:

FS001 - Heavy Metals (As, Cd, Hg, and Pb)	Reference	Accreditation	Completed	Sub
	AOAC 2011.19, 993.14 and 2015.01 (modified)		19Jun2023	2

Parameter	Result	Result	Theoretical
Arsenic	<10.0 ppb		
Cadmium	7.44 ppb		
Lead	14.0 ppb		
Mercury	<5.00 ppb		

FS014 - Heavy Metals USP 233	Reference	Accreditation	Completed	Sub
	USP 233 Mod.		21Jun2023	2

Parameter	Result	Result	Theoretical
Arsenic	<10.0 ppb		
Cadmium	8.70 ppb		
Lead	15.3 ppb		
Mercury	<5.00 ppb		

FS05M - Organoleptic Evaluation	Reference	Accreditation	Completed	Sub
	Internal Method based on USP 25th ed. pg 2363		19Jun2023	2

Parameter	Result	Result	Theoretical
Appearance	See below		
Characteristic Odor	Faint uncharacterized odor		
Package Appearance	Clear whirl-pak bag		

FS05P - Disintegration	Reference	Accreditation	Completed	Sub
	Current USP/NF		19Jun2023	2

Parameter	Result	Result	Theoretical
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FS05P - Disintegration	Reference Current USP/NF	Accreditation	Completed 19Jun2023	Sub 2
Parameter	Result	Result	Theoretical	
Disintegration Type	Hard Shell Capsules			
Disintegration time	<30:00 minute			
Final Result	Pass			
Method Reference	USP-NF 2023 Online			

JLPT1 - Total Microbial Count Suitability USP Chapter 2021	Reference USP <2021>	Completed 08Jun2023
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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 09Jun2023
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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 21Jun2023
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Parameter	Result	Result	Theoretical
Total Combined Yeast-Molds Count	PASS		

M9027 - Total Curcuminoids	Reference Internal method	Accreditation	Completed 15Jun2023	Sub 3
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Parameter	Result	Result	Theoretical	
Bis-Desmethoxy Curcumin	3,780 µg/g			
Curcumin	149,000 µg/g			
Desmethoxy Curcumin	30,200 µg/g			
Total Curcuminoids	183,000 µg/g			

QA0SW - Dithiocarbamates by LC-MS/MS per USP <561>	Reference Anal Bioanal Chem, 2008,392(5), 969-978.Modified.	Accreditation	Completed 13Jun2023	Sub 1
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Parameter	Result	Result	Theoretical	
Dithiocarbamates (as CS2)	<2.00 mg/kg			

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Sample Description:	MERIVA CURCUMIN PHYTOSOME 500MG	Sample Reference:	

QA0SY - Bromide, inorganic (GC-MS) <USP 561>	Reference EURL-SRM, Bromine Containing Fumigants	Accreditation	Completed 13Jun2023	Sub 1
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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 13Jun2023	Sub 1
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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		
Endosulfan (sum)	<3.0 mg/kg		
Endrin	<0.05 mg/kg		
Ethion	<2 mg/kg		
Etrinfos	<0.05 mg/kg		
Fenchlorophos (sum)	<0.1 mg/kg		

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QA0SZ - Pesticides <USP 561> (LC-MS/MS and GC-MS/MS)	Reference USP 561	Accreditation	Completed 13Jun2023	Sub 1
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Parameter	Result	Result	Theoretical
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		
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		

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QA0SZ - Pesticides <USP 561> (LC-MS/MS and GC-MS/MS)	Reference USP 561	Accreditation	Completed 13Jun2023	Sub 1
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Parameter	Result	Result	Theoretical
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 13Jun2023	Sub 1
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Parameter	Result	Result	Theoretical
Standard Addition Confirmation	Not required		

UM83V - Total Combined Yeasts/Moulds Count - USP Chapter <61>	Reference U.S. Pharmacopeia Chapter 61	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 22Jun2023
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Parameter	Result	Result	Theoretical
Total Combined Yeasts/Moulds Count	3,400 cfu/g	3,400 cfu/g	

ZMCKU - E. coli - USP <2022>	Reference USP <2022>	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 19Jun2023
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Parameter	Result	Result	Theoretical
Escherichia 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 19Jun2023
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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 09Jun2023
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Parameter	Result	Result	Theoretical
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ZMCLT - Pseudomonas aeruginosa Suitability - USP Chapter <62>	Reference U.S. Pharmacopeia Chapter 62	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 09Jun2023
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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 09Jun2023
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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 08Jun2023
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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 08Jun2023
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Parameter	Result	Result	Theoretical
Total Aerobic Microbial Count	200 (est) cfu/g	200 (est) cfu/g	

ZMDGE - Staphylococcus aureus - USP Chapter <2022>	Reference U.S. Pharmacopeia Chapter 2022	Accreditation ISO/IEC 17025:2017 A2LA 2918.05	Completed 08Jun2023
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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 09Jun2023
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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 09Jun2023
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Parameter	Result	Result	Theoretical
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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
09Jun2023

Parameter	Result	Result	Theoretical
Bile-Tolerant Gram Negative Bacteria (Semiquanti)	<10 MPN per g	<10 MPN per g	

ZMEV2 - Salmonella spp. - USP Chapter <2022>

Reference
U.S. Pharmacopeia Chapter 2022

Accreditation
ISO/IEC 17025:2017
A2LA 2918.05

Completed
09Jun2023

Parameter	Result	Result	Theoretical
Salmonella	Not Detected per 10 g	Not Detected per 10 g	

Subcontracting partners:

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

Respectfully Submitted,



E. Schmitt

Emily Schmitt
Analytical Services Manager

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