



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D001.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D001.R001.

Reason: Reporting units of 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0001
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.272	mg/kg	0.0181	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0275	mg/kg	0.0181	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.581	mg/kg	0.0181	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0215	mg/kg	0.00907	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	3.36	mg/kg	0.0181	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	100	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/15g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	I

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0202	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	214	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.01	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.102	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.290	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.103	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.53	%	-	11/12/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.53	g/100g	0.10	11/05/25 AOAC 925.10 (mod.) ^p			

Pesticides

P2320 Multi-Residue Pesticide Profile

Method: AOAC 2007.01^p

Unit: mg/kg

Analyzed: 10/06/25

Analyte	Result	LOQ	Threshold	Pass/Fail	Notes
Cypermethrin (sum)	0.502	0.200	-	-	

All compounds on the attached sheet were found to be <LOQ except those listed.

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

^p = ISO/IEC 17025:2017 accredited method.



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Received: 09/29/25 09:13 AM

Units of Measure

/15g = Per 15g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager

Residue List

Method AOAC 2007.01

Units mg/kg

Analyzed 2025-10-06

Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
2,4-D	0.10	2,4-DB	0.10	2,4-DP	0.10	2,4,5-T	0.10
2,4,5-TP	0.10	2,6-Dichlorobenzamide	0.10	Abamectin (Avermectin)	0.10	Acephate	0.20
Acequinocyl	0.10	Acetamiprid	0.10	Acetochlor	0.20	Acibenzolar-s-methyl	0.10
Acifluorfen	0.10	Acrinathrin	0.10	Afidopyropen	0.10	Alachlor	0.20
Aldicarb	0.10	Aldicarb-sulfone	0.10	Aldicarb-sulfoxide	0.10	Aldrin	0.10
Ametoctradin	0.10	Ametryn	0.10	Aminocyclopyrachlor	0.10	Anilazine	0.30
Aspon	0.10	Asulam	0.10	Atrazine	0.10	Atrazine-desethyl	0.10
Azadirachtin	0.10	Azinphos-ethyl	0.10	Azinphos-methyl	0.10	Azoxystrobin	0.10
Benalaxyl	0.10	Bendiocarb	0.10	Benfluralin	0.10	Benoxacor	0.10
Bensulide	0.10	Bentazone	0.10	Benzovindiflupyr	0.10	BHC (α , β , γ , δ isomers)	0.10
Bifenazate	0.10	Bifenoxy	0.10	Bifenthrin	0.10	Binapacryl	0.40
Bioresmethrin	0.10	Bispyribac-sodium	0.01	Bitertanol	0.20	Boscalid	0.10
Broflanilide	0.10	Bromacil	0.20	Bromophos-ethyl	0.20	Bromophos-methyl	0.10
Bromopropylate	0.10	Bromoxynil	0.10	Bromuconazole	0.10	Bupirimate	0.10
Buprofezin	0.10	Butachlor	0.10	Butoxycarboxim	0.10	Butralin	0.20
Butylate	0.10	Cadusafos	0.10	Captafol	1.00	Captan	0.20
Carbaryl	0.10	Carbendazim	0.10	Carbofuran	0.10	Carbofuran-3-hydroxy	0.10
Carbophenothion	0.10	Carbophenothion-methyl	0.10	Carboxin	0.10	Carfentrazone-ethyl	0.10
Chlorantraniliprole	0.10	Chlordane	0.10	Chlordimeform	0.10	Chlorfenapyr	0.20
Chlorfenson	0.10	Chlorfenvinphos	0.10	Chlorimuron-ethyl	0.10	Chlornitrofen	0.20
Chlorobenzilate	0.10	Chloroneb	0.10	Chlorothalonil	0.40	Chlorpropham (CIPC)	0.10
Chlorpyrifos-ethyl	0.10	Chlorpyrifos-methyl	0.10	Chlorsulfuron	0.10	Chlorthal-dimethyl (Dacthal, D)	0.10
Chlorthion	0.20	Chlorthiophos	0.10	Cinerin I	0.10	Clethodim	0.10
Clethodim-sulfone	0.10	Clethodim-sulfoxide	0.10	Clofentezine	0.10	Clomazone	0.10
Clopyralid	0.10	Clothianidin	0.10	Coumaphos	0.10	Crotoxyphos	0.10
Cyanazine	0.10	Cyanofenphos	0.10	Cyanophos	0.40	Cyantraniliprole	0.10
Cyazofamid	0.10	Cycloate	0.10	Cycloxydim	0.10	Cyflufenamid	0.10
Cyflumetofen	0.10	Cyfluthrin (sum)	0.20	Cyhalothrin, lambda	0.10	Cymoxanil	0.10
Cypermethrin (sum)	0.20	Cyprodinil	0.10	Cyromazine	0.10	DDD-o,p'	0.10
DDD-p,p'	0.10	DDE-o,p'	0.10	DDE-p,p'	0.10	DDT-o,p'	0.10
DDT-p,p'	0.10	DEF (Tribufos)	0.10	Deltamethrin	0.10	Demeton	0.20
Demeton-s-methyl	0.20	Demeton-s-methyl sulfone	0.20	Desmedipham	0.10	Diallate	0.10
Diazinon	0.10	Diazoxon (Diazinon OA)	0.10	Dicamba	0.40	Dichlobenil	0.10

Residue List

Method AOAC 2007.01

Units mg/kg

Analyzed 2025-10-06

Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
Dichlofenthion	0.10	Dichlofluanid	0.10	Dichlorvos	0.10	Diclobutrazol	0.10
Diclofop	0.10	Diclofop-methyl	0.10	Dicloran	0.40	Dicofol o,p	0.20
Dicofol-p,p	0.20	Dicrotophos	0.10	Dieldrin	0.10	Diethofencarb	0.10
Diethyltoluamide (DEET)	0.10	Difenoconazole	0.10	Diffubenzuron	0.10	Diffufenzopyr	0.10
Dimethenamid	0.10	Dimethoate	0.10	Dimethomorph	0.10	Diniconazole	0.10
Dinocap	0.10	Dinoseb	0.10	Dinotefuran	0.10	Dioxathion	0.10
Diphenamid	0.10	Diphenylamine	0.10	Disulfoton	0.20	Disulfoton-sulfone	0.10
Disulfoton-sulfoxide	0.10	Dithianon	0.10	Dithiopyr	0.10	Diuron	0.10
Diuron metabolite (DCPMU)	0.10	DNOC (Dinitrocresol)	0.10	Edifenphos	0.10	Endosulfan I (alpha)	0.20
Endosulfan II (beta)	0.20	Endosulfan sulfate	0.10	Endrin	0.20	Endrin Aldehyde	0.20
EPN	0.10	EPTC	0.10	Esfenvalerate	0.20	Etaconazole	0.10
Ethaboxam	0.10	Ethalfuralin	0.10	Ethiofencarb	0.10	Ethion	0.10
Ethirimol	0.10	Ethofumesate	0.10	Ethoprophos	0.10	Ethoxyquin	0.20
Etofenprox	0.10	Etoxazole	0.10	Etridiazole	0.10	Etrimfos	0.10
Famoxadone	0.20	Famphur	0.10	Fenamidone	0.10	Fenamiphos	0.10
Fenamiphos-sulfone	0.10	Fenamiphos-sulfoxide	0.10	Fenarimol	0.10	Fenazaquin	0.10
Fenbuconazole	0.10	Fenbutatin oxide	0.10	Fenchlorphos	0.10	Fenchlorphos-oxon	0.10
Fenhexamid	0.10	Fenitrothion	0.10	Fenobucarb	0.10	Fenoxaprop-p-ethyl	0.10
Fenoxycarb	0.10	Fenpropathrin	0.10	Fenpyroximate	0.10	Fenson	0.20
Fensulfothion	0.10	Fenthion	0.10	Fenuron	0.10	Fipronil	0.10
Flonicamid	0.10	Fluazifop	0.10	Fluazinam	0.10	Fluchloralin	0.10
Flucythrinate	0.30	Fludioxonil	0.10	Flufenacet	0.10	Flumetsulam	0.10
Flumioxazin	0.10	Fluometuron	0.10	Fluopicolide	0.10	Fluopyram	0.10
Fluoxastrobin	0.10	Fluprimidol	0.10	Flupyradifurone	0.10	Fluridone	0.10
Fluroxypyr	0.10	Flusilazole	0.10	Fluthiacet-methyl	0.10	Flutianil	0.10
Flutolanil	0.10	Flutriafol	0.10	Fluxapyroxad	0.10	Folpet	0.10
Fomesafen	0.10	Fonofos	0.10	Foramsulfuron	0.10	Forchlorfenuron	0.10
Formetanate	0.10	Furathiocarb	0.10	Halosulfuron-methyl	0.10	Haloxypop	0.10
Heptachlor	0.10	Heptachlor epoxide	0.10	Hexachlorobenzene	0.10	Hexaconazole	0.10
Hexazinone	0.10	Hexythiazox	0.10	Hydroprene	0.10	Imazalil	0.10
Imazamox	0.10	Imazapic	0.10	Imazapyr	0.10	Imazaquin	0.10
Imazethapyr	0.10	Imidacloprid	0.10	Indaziflam	0.10	Indoxacarb	0.10

Residue List

Method AOAC 2007.01		Units mg/kg		Analyzed 2025-10-06	
Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
Iprobenfos	0.10	Iprodione	0.10	Isazophos	0.10
Isocarbophos	0.10	Isodrin	0.10	Isofenphos	0.10
Isofenphos-oxon	0.10	Isofetamid	0.10	Isoprocab	0.10
Isoprothiolane	0.10	Isoproturon	0.10	Isoxaben	0.10
Jasmolin I	0.10	Kresoxim-methyl	0.10	Lactofen	0.20
Linuron	0.10	Malaoxon	0.10	Malathion	0.10
Mandipropamid	0.10	MCPA	0.10	MCPB	0.10
MCPPP-P	0.10	Mecarbam	0.10	Mefentrifluconazole	0.10
Mesosulfuron-methyl	0.10	Mesotrione	0.10	Metalaxyl	0.10
Metconazole	0.10	Methacrifos	0.10	Methamidophos	0.10
Methiocarb	0.10	Methiocarb-sulfone	0.10	Methiocarb-sulfoxide	0.10
Methomyl	0.10	Methoxychlor	0.10	Methoxyfenozide	0.10
Metolacarb	0.10	Metolachlor	0.10	Metrafenone	0.10
Metsulfuron-methyl	0.10	Mevinphos	0.10	Mexacarbate	0.10
Mirex	0.10	Molinate	0.10	Monocrotophos	0.10
Myclobutanil	0.10	Naled	0.10	Napropamide	0.10
Nicosulfuron	0.10	Nitrapyrin	0.20	Nitrofen	0.20
Novaluron	0.10	Nuarimol	0.20	O-Phenylphenol	0.50
Oryzalin	0.10	Oxadiazon	0.10	Oxadixyl	0.10
Oxamyl-oxime	0.10	Oxathiapirolin	0.10	Oxychlorane	0.10
Oxyfluorfen	0.10	Oxythioquinox	0.20	Paclobutrazole	0.10
Paraoxon-methyl	0.10	Parathion-ethyl	0.10	Parathion-methyl	0.30
Pendimethalin	0.10	Penflufen	0.10	Pentachloroaniline	0.10
Pentachlorobenzene	0.10	Pentachlorophenol	0.10	Pentachloroanisole	0.30
Permethrin	0.10	Perthane	0.10	Phenmedipham	0.10
Phenthoate	0.10	Phorate	0.10	Phorate OA	0.10
Phorate-sulfoxide	0.10	Phosalone	0.10	Phosmet	0.10
Phosphamidon	0.10	Phoxim	0.10	Picloram	0.10
Piperonyl butoxide	0.10	Pirimicarb	0.10	Pirimiphos-ethyl	0.10
Prallethrin	0.10	Primisulfuron-methyl	0.10	Prochloraz	0.10
Prodiamine	0.10	Profenofos	0.10	Profluralin	0.10
Prometon	0.10	Prometryn	0.10	Pronamide (Propyzamid)	0.10
				Propachlor	0.10

Residue List

Method AOAC 2007.01
Units mg/kg
Analyzed 2025-10-06

Parameter	LOQ	Parameter	LOQ	Parameter	LOQ	Parameter	LOQ
Propamocarb	0.10	Propanil	0.10	Propargite	0.10	Propazine	0.10
Propetamphos	0.10	Propham	0.10	Propiconazole	0.10	Propoxur	0.10
Propoxycarbazone sodium	0.10	Prosulfuron	0.10	Prothioconazole	0.10	Prothiofos	0.10
Pydiflumetofen	0.10	Pymetrozine	0.10	Pyraclostrobin	0.10	Pyraflufen-ethyl	0.10
Pyrazophos	0.10	Pyrethrins (total)	0.10	Pyridaben	0.10	Pyridate	0.10
Pyrifluquinazon	0.10	Pyrimethanil	0.10	Pyriproxyfen	0.10	Pyroxasulfone	0.10
Pyroxsulam	0.10	Quinalphos	0.10	Quinclorac	0.10	Quinoxifen	0.10
Quintozene (PCNB)	0.10	Quizalofop	0.10	Resmethrin	0.10	Rimsulfuron	0.10
Rotenone	0.10	S-421	0.10	Saflufenacil	0.10	Sebuthylazine	0.10
Sedaxane	0.10	Sethoxydim	0.10	Siduron	0.10	Simazine	0.10
Simetryn	0.10	Spinetoram	0.10	Spinosad	0.10	Spirodiclofen	0.10
Spiromesifen	0.10	Spirotetramat	0.10	Spirotetramat enol	0.10	Spiroxamine	0.10
Sulfallate	0.10	Sulfentrazone	0.30	Sulfometuron-methyl	0.10	Sulfosulfuron	0.10
Sulfotep	0.10	Sulfoxaflo	0.10	Sulprofos	0.10	Tau-fluvalinate	0.10
Tebuconazole	0.10	Tebufenozide	0.10	Tebuthiuron	0.10	Tecnazene	0.10
Tefluthrin	0.10	Tembotrione	0.10	Terbacil	0.40	Terbufos	0.10
Terbufos-sulfone	0.10	Terbufos-sulfoxide	0.10	Terbuthylazine	0.10	Terbutryn	0.10
Tetrachlorvinphos	0.10	Tetraconazole	0.10	Tetradifon	0.10	Tetramethrin	0.10
Tetrasul	0.10	Thiabendazol 5 hydroxy	0.10	Thiabendazole	0.10	Thiacloprid	0.10
Thiamethoxam	0.10	Thifensulfuron-methyl	0.10	Thiobencarb	0.10	Thiodicarb	0.10
Thiometon	0.20	Thionazin	0.10	Thiophanate-methyl	0.10	Tolclofos-methyl	0.10
Tolfenpyrad	0.10	Tolyfluanid	0.10	Topramezone	0.10	Tralkoxydim	0.10
Triadimefon	0.10	Triadimenol	0.10	Triallate	0.10	Triasulfuron	0.10
Triazophos	0.10	Tribenuron-methyl	0.10	Trichlorfon (Metrifonate)	0.10	Triclopyr	0.20
Trifloxystrobin	0.10	Trifloxysulfuron	0.10	Triflumizole	0.10	Trifluralin	0.10
Triflusulfuron-methyl	0.10	Triforine	0.10	Trinexapac-ethyl	0.10	Triticonazole	0.10
Vinclozolin	0.10	Zoxamide	0.10				



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Reason: Reporting units of 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B 1
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0002
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.292	mg/kg	0.0190	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0293	mg/kg	0.0190	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.605	mg/kg	0.0190	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0225	mg/kg	0.00950	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	3.42	mg/kg	0.0190	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0159	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	168	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.02	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.124	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.293	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.115	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.57	%	-	11/12/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.29	g/100g	0.10	11/05/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



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Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D003.R001.

Reason: Reporting units of 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B2
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0003
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.264	mg/kg	0.0170	10/02/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0280	mg/kg	0.0170	10/02/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.562	mg/kg	0.0170	10/02/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0239	mg/kg	0.00851	10/02/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	3.00	mg/kg	0.0170	10/02/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	100	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D003.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.12	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.149	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.299	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.115	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.68	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.38	g/100g	0.10	11/05/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D004.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D004.R001.

Reason: Reporting units of 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B3
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0004
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.228	mg/kg	0.0158	10/02/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0214	mg/kg	0.0158	10/02/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.597	mg/kg	0.0158	10/02/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0254	mg/kg	0.00788	10/02/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	2.13	mg/kg	0.0158	10/02/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	900	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/15g	-	10/01/25 AOAC 2020.02 ^p	Negative	pass	I

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.23	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.184	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.257	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.158	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.83	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.39	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/15g = Per 15g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D005.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D005.R001.

Reason: Reporting units of 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B4
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0005
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.277	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0239	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.508	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0314	mg/kg	0.00780	10/02/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	1.89	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	100	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.20	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.183	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.246	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.156	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.79	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.37	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

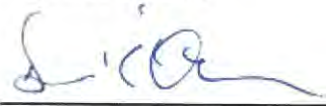
g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D006.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D006.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B5
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0006
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.445	mg/kg	0.0197	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0204	mg/kg	0.0197	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.561	mg/kg	0.0197	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0268	mg/kg	0.00985	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.61	mg/kg	0.0197	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	100	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.20	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.151	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.271	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.133	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.76	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.37	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D007.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D007.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B6
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0007
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.271	mg/kg	0.0159	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0227	mg/kg	0.0159	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.633	mg/kg	0.0159	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0392	mg/kg	0.00797	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.81	mg/kg	0.0159	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	300	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.21	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.184	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.249	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.158	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.80	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.19	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D008.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D008.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B7
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0008
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.345	mg/kg	0.0195	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0246	mg/kg	0.0195	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.575	mg/kg	0.0195	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0222	mg/kg	0.00977	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.87	mg/kg	0.0195	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	200	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



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Portland, OR 97230
503-254-1794

Report Number: 25-011606/D008.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.07	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.152	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciocillatine	0.291	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.138	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.65	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.58	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D009.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D009.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B8
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0009
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.312	mg/kg	0.0179	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0292	mg/kg	0.0179	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.645	mg/kg	0.0179	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0253	mg/kg	0.00897	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	3.14	mg/kg	0.0179	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	400	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.10	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.144	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.302	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.128	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.67	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.50	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

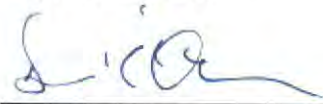
g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D010.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D010.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B9
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0010
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.416	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0218	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.588	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0242	mg/kg	0.00780	10/02/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	2.92	mg/kg	0.0156	10/02/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	200	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.25	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.184	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.283	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.144	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.86	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analized Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.32	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D011.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D011.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B10
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0011
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.426	mg/kg	0.0148	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0183	mg/kg	0.0148	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.744	mg/kg	0.0148	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0281	mg/kg	0.00742	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.21	mg/kg	0.0148	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	400	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



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503-254-1794

Report Number: 25-011606/D011.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitragynine	1.24	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Paynantheine	0.185	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciociliatine	0.289	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciogynine	0.169	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Total Alkaloids	1.88	%	-	10/03/25 In house method by HPLC-DAD ^P			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.09	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^P			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^P = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D012.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D012.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B 11
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0012
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Arsenic	0.514	mg/kg	0.0162	10/02/25	AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0187	mg/kg	0.0162	10/02/25	AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.465	mg/kg	0.0162	10/02/25	AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0291	mg/kg	0.00812	10/02/25	AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.62	mg/kg	0.0162	10/02/25	AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	100	cfu/g	100	10/02/25	AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25	AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25	AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25	AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25	AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25	AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25	AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25	In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25	In house method by HPLC-DAD ^b			



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Portland, OR 97230
503-254-1794

Report Number: 25-011606/D012.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.16	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.182	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.277	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.156	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.78	%	-	10/03/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.08	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D013.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D013.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B 12
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0013
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.339	mg/kg	0.0165	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0266	mg/kg	0.0165	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.699	mg/kg	0.0165	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0369	mg/kg	0.00825	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.92	mg/kg	0.0165	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



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503-254-1794

Report Number: 25-011606/D013.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitragynine	1.26	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Paynantheine	0.192	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciociliatine	0.262	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciogynine	0.150	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Total Alkaloids	1.86	%	-	10/03/25 In house method by HPLC-DAD ^P			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.49	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^P			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^P = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D014.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D014.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B13
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0014
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.218	mg/kg	0.0171	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0249	mg/kg	0.0171	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	1.65	mg/kg	0.0171	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	fail	
Mercury	0.0216	mg/kg	0.00853	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.40	mg/kg	0.0171	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	300	cfu/g	100	10/02/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/02/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/01/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/03/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/01/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25	In house method by HPLC-DAD ^P			
Mitragynine	1.12	%	0.0500	10/01/25	In house method by HPLC-DAD ^P			
Mitraphylline	< LOQ	%	0.0500	10/01/25	In house method by HPLC-DAD ^P			
Paynantheine	0.150	%	0.0500	10/01/25	In house method by HPLC-DAD ^P			
Speciociliatine	0.246	%	0.0500	10/01/25	In house method by HPLC-DAD ^P			
Speciogynine	0.119	%	0.0500	10/01/25	In house method by HPLC-DAD ^P			
Total Alkaloids	1.64	%	-	10/03/25	In house method by HPLC-DAD ^P			

Nutrition

Analyte	Result	Units	LOQ	Analyzed	Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.46	g/100g	0.10	11/07/25	AOAC 925.10 (mod.) ^P			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^P = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D015.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D015.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B14
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0015
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.321	mg/kg	0.0145	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0278	mg/kg	0.0145	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.529	mg/kg	0.0145	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0301	mg/kg	0.00726	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.44	mg/kg	0.0145	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	200	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitragynine	1.15	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Paynantheine	0.162	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciociliatine	0.271	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciogynine	0.145	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Total Alkaloids	1.73	%	-	10/06/25 In house method by HPLC-DAD ^P			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.29	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^P			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^P = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D016.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D016.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B15
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0016
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.357	mg/kg	0.0174	10/02/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0208	mg/kg	0.0174	10/02/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.515	mg/kg	0.0174	10/02/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0291	mg/kg	0.00870	10/02/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.85	mg/kg	0.0174	10/02/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	300	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.34	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.207	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.232	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.175	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.95	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.37	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D017.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D017.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B 16
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0017
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.473	mg/kg	0.0168	10/03/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0181	mg/kg	0.0168	10/03/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.588	mg/kg	0.0168	10/03/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0247	mg/kg	0.00841	10/03/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	1.99	mg/kg	0.0168	10/06/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.27	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.191	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.269	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.164	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.89	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	4.81	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

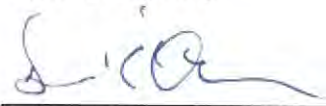
g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D018.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D018.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B17
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0018
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.476	mg/kg	0.0153	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0221	mg/kg	0.0153	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.500	mg/kg	0.0153	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0318	mg/kg	0.00767	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.98	mg/kg	0.0153	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	600	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.16	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.178	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.282	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.152	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.77	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.37	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D019.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D019.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B18
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0019
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.232	mg/kg	0.0161	10/03/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0212	mg/kg	0.0161	10/03/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.513	mg/kg	0.0161	10/03/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0261	mg/kg	0.00804	10/03/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	1.98	mg/kg	0.0161	10/06/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D019.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.29	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.195	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.244	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.156	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.89	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.64	g/100g	0.10	11/07/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D020.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D020.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B 19
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0020
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.244	mg/kg	0.0162	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0225	mg/kg	0.0162	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.610	mg/kg	0.0162	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0210	mg/kg	0.00809	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.89	mg/kg	0.0162	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	900	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D020.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.14	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.160	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.272	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.121	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.69	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.70	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D021.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D021.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B20
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0021
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.204	mg/kg	0.0178	10/03/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0197	mg/kg	0.0178	10/03/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.526	mg/kg	0.0178	10/03/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0225	mg/kg	0.00889	10/03/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	2.18	mg/kg	0.0178	10/06/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	100	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D021.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.22	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.187	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.239	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.159	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.81	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.49	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D022.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D022.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B21
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0022
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.454	mg/kg	0.0137	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0193	mg/kg	0.0137	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.547	mg/kg	0.0137	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0363	mg/kg	0.00685	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.94	mg/kg	0.0137	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	900	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD [Ⓟ]			
Mitragynine	1.26	%	0.0500	10/01/25 In house method by HPLC-DAD [Ⓟ]			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD [Ⓟ]			
Paynantheine	0.189	%	0.0500	10/01/25 In house method by HPLC-DAD [Ⓟ]			
Speciociliatine	0.245	%	0.0500	10/01/25 In house method by HPLC-DAD [Ⓟ]			
Speciogynine	0.164	%	0.0500	10/01/25 In house method by HPLC-DAD [Ⓟ]			
Total Alkaloids	1.86	%	-	10/06/25 In house method by HPLC-DAD [Ⓟ]			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.52	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) [Ⓟ]			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

[Ⓟ] = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D023.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D023.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B22
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0023
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.279	mg/kg	0.0185	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0255	mg/kg	0.0185	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.720	mg/kg	0.0185	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0264	mg/kg	0.00925	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	2.33	mg/kg	0.0185	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	700	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D023.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.19	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.181	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.262	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.154	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.79	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.57	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D024.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D024.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B23
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0024
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.366	mg/kg	0.0172	10/03/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0262	mg/kg	0.0172	10/03/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.590	mg/kg	0.0172	10/03/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0369	mg/kg	0.00861	10/03/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	2.30	mg/kg	0.0172	10/06/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	600	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^p			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D024.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.15	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.174	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.271	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.155	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.75	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.28	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D025.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D025.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B24
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0025
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.275	mg/kg	0.0159	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0162	mg/kg	0.0159	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.471	mg/kg	0.0159	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0238	mg/kg	0.00794	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.92	mg/kg	0.0159	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	600	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D025.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitragynine	1.33	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Paynantheine	0.202	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciociliatine	0.261	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Speciogynine	0.167	%	0.0500	10/01/25 In house method by HPLC-DAD ^P			
Total Alkaloids	1.96	%	-	10/06/25 In house method by HPLC-DAD ^P			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.35	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^P			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^P = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D026.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D026.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B25
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0026
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.748	mg/kg	0.0141	10/03/25 AOAC 2013.06 (mod.) ^p	1.50	pass	
Cadmium	0.0180	mg/kg	0.0141	10/03/25 AOAC 2013.06 (mod.) ^p	0.500	pass	
Lead	0.542	mg/kg	0.0141	10/03/25 AOAC 2013.06 (mod.) ^p	1.00	pass	
Mercury	0.0265	mg/kg	0.00704	10/03/25 AOAC 2013.06 (mod.) ^p	0.200	pass	
Nickel	1.61	mg/kg	0.0141	10/06/25 AOAC 2013.06 (mod.) ^p	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	< LOQ	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^p	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^p	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^p	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^p	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^p	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	0.0158	%	0.01	10/01/25 In house method by HPLC-DAD ^p			
7-Hydroxymitragynine dry weight	166	ppm	100	11/13/25 In house method by HPLC-DAD ^p			

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.22	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.184	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.305	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.162	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.89	%	-	11/12/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	4.85	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

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^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory



Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D027.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D027.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B26
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0027
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.433	mg/kg	0.0191	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0201	mg/kg	0.0191	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.611	mg/kg	0.0191	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0343	mg/kg	0.00956	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.79	mg/kg	0.0191	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	500	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D027.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.31	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.196	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.260	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.189	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.96	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	5.49	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D028.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

This is an amended version of report# 25-011606/D028.R001.

Reason: Reporting units for 7HO updated to ppm and calculated by dry weight

Customer: Lamp Nutra
3133 Tigar Run Ct Ste 104
Carlsbad California 92010
United States of America (USA)

Sample ID: LNK-L56-B27
Sample Matrix: Kratom powder
Laboratory ID: 25-011606-0028
Evidence of Cooling: No
Temp: 21.5 °C
Serving Size #1: 2 g

Sample Results

Metals

Heavy Metals Profile K

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Arsenic	0.357	mg/kg	0.0164	10/03/25 AOAC 2013.06 (mod.) ^b	1.50	pass	
Cadmium	0.0221	mg/kg	0.0164	10/03/25 AOAC 2013.06 (mod.) ^b	0.500	pass	
Lead	0.638	mg/kg	0.0164	10/03/25 AOAC 2013.06 (mod.) ^b	1.00	pass	
Mercury	0.0326	mg/kg	0.00819	10/03/25 AOAC 2013.06 (mod.) ^b	0.200	pass	
Nickel	1.85	mg/kg	0.0164	10/06/25 AOAC 2013.06 (mod.) ^b	20.0	pass	

Microbiology

Kratom Micro Profile

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Aerobic Plate Count	100	cfu/g	100	10/04/25 AOAC 990.12 (Petrifilm) ^b	10,000,000	pass	
E.coli	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	100	pass	
Total Coliforms	< LOQ	cfu/g	100	10/04/25 AOAC 991.14 (Petrifilm) ^b	10,000	pass	
Enterobacteriaceae	< LOQ	cfu/g	100	10/03/25 AOAC 2003.01 ^b	10,000	pass	
Mold (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Yeast (RAPID Petrifilm)	< LOQ	cfu/g	100	10/05/25 AOAC 2014.05 (RAPID) ^b	50,000	pass	
Salmonella spp.	Negative	/25g	-	10/02/25 AOAC 2020.02 ^b	Negative	pass	

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
7-Hydroxymitragynine	< LOQ	%	0.01	10/01/25 In house method by HPLC-DAD ^b			
7-Hydroxymitragynine dry weight	< LOQ	ppm	100	11/13/25 In house method by HPLC-DAD ^b			



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 25-011606/D028.R002
Report Date: 11/14/2025
Purchase Order: andy092625
Received: 09/29/25 09:13 AM

Mitragynine

Mitragynine Full Alkaloid Panel

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Isorhynchophylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitragynine	1.16	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Mitraphylline	< LOQ	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Paynantheine	0.182	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciociliatine	0.257	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Speciogynine	0.140	%	0.0500	10/01/25 In house method by HPLC-DAD ^p			
Total Alkaloids	1.74	%	-	10/06/25 In house method by HPLC-DAD ^p			

Nutrition

Analyte	Result	Units	LOQ	Analyzed Method	Threshold	Pass/Fail	Notes
Moisture (Loss on Drying)	4.82	g/100g	0.10	11/10/25 AOAC 925.10 (mod.) ^p			

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Threshold Note: limits based on AHPA recommended limits for unprocessed herbs and supplements and ingredients (10g daily consumption)

Threshold limits referenced herein are based on AHPA recommended limits for unprocessed herbs, supplements, and ingredients, assuming a 10 g daily intake. Threshold evaluations are provided at the client's request for quality assurance purposes only. These evaluations apply solely to the submitted samples and do not constitute a guarantee of safety, efficacy, or regulatory compliance. Columbia Laboratories recommends further evaluation in the context of the specific product formulation, intended use, and applicable regulatory requirements.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g/100g = Grams per 100 Grams

mg/kg = Milligram per kilogram = parts per million (ppm)

ppm = Parts Per Million

% = Percentage of sample

Approved Signatory

Derrick Tanner
General Manager

