

Comprehensive Analysis Report

Sample Overview

Client: Gold Naturals

None

Sample Name: Muscle + Joint Medium

Sample Matrix: Edible Sample Lot: 210S024B **Date Received: 09/14/2023**

APRC #: GOL230915A



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	Assay	Disposition	Date Tested
Į	Heavy Metals - Utah State Cannabis Panel	Tested	09-20-2023
(E	Microbial: Quantitative Bacteria/Yeast/ Mold	Tested	09-19-2023
- 1	Hemp or R&D Residual Solvents	Tested	09-15-2023



 ${\it Accreditation~\#115229} \\ {\it Aromatic~Plant~Research~Center~is~an~ISO~17025:2017~certified~laboratory}.$



Heavy Metals

Method: CTLA Sample Name: Muscle + Joint Medium APRC Lot Number: GOL230915A

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail	
Arsenic	Arsenic <0.001		2.00	Pass	
Cadmium	0.002	0.001	0.82	Pass	
Lead	<0.001	0.001	1.20	Pass	
Mercury	<0.001	0.001	0.40	Pass	

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: Tessa Crook



Instrument Analysis Report

Microbial Impurities

Method: SOP 1-2034.01 Sample Name: Muscle + Joint Medium APRC Lot Number: GOL230915A

Total Counts						
Microbial Group: Result (CFU/g): Specification: Disposition						
Total Aerobic Bacteria	<10	≤10,000	Pass			
Total Yeast and Mold	<10	≤1,000	Pass			

() () () () () () () () () ()	pecific Organisn	n Identification		
Microbial Organism:	Result:	Specification:	Disposition	
Aspergillus flavus	Not Tested	Not Tested	Not Tested	
Aspergillus fumigatus	Not Tested	Not Tested	Not Tested	
Aspergillus niger	Not Tested	Not Tested	Not Tested	
Aspergillus terreus	Not Tested	Not Tested	Not Tested	
E. coli	Not Detected	Not Detected	Pass	
STEC	Not Detected	Report Only	Tested	
Salmonella - Specific Gene	Not Detected	Not Detected	Pass	
Staphylococcus aureus	Not Detected	Not Detected	Pass	
Pseudomonas aeruginosa	Not Detected	Report Only	Tested	

Performed by: Jordan Morley

Reviewed by: Tessa Crook

Instrument Analysis Report



Residual Solvents

Method: SOP 1-2027.03 Sample Name: Muscle + Joint Medium APRC Lot Number: GOL230915A

			1
Residual Solvent	Finding (μg/g)	Action Level (µg/g)	Pass/Fai
Dimethyl sulfoxide	ND	5000	Pass
N,N-dimethylacetamide	ND	1090	Pass
1,2 Dimethoxyethane	ND	100	Pass
1,4 Dioxane	ND	380	Pass
1-Butanol	ND	5000	Pass
1-Pentanol	ND	5000	Pass
1-Propanol	ND	5000	Pass
2-Butanone	ND	5000	Pass
2-Butanol	ND	5000	Pass
2-Ethoxyethanol	ND	160	Pass
2-Methylbutane	ND	5000	Pass
2-Propanol	ND	5000	Pass
Acetone	ND	5000	Pass
Acetonitrile	ND	410	Pass
Benzene	ND	2	Pass
Butane	ND	5000	Pass
Cumene	ND	70	Pass
Cyclohexane	ND	3880	Pass
Dichloromethane	ND	600	Pass
2,2-Dimethylbutane	ND	290	Pass
2,3-Dimethylbutane	ND	290	Pass
m,p-Xylene	ND	See Total Xylenes	Pass
o-Xylene	ND	See Total Xylenes	Pass
Ethanol	9.665	5000	Pass
Ethyl Acetate	ND	5000	Pass
Ethyl Benzene	ND	See Total Xylenes	Pass
Ethyl Ether	ND	5000	Pass
Ethylene Glycol	ND	620	Pass
Ethylene Oxide	ND	50	Pass

Residual Solvent	Finding (μg/g)	Action Level (μg/g)	Pass/Fail
Heptane	ND	5000	Pass
Hexane	16.144	290	Pass
Isopropyl Acetate	ND	5000	Pass
Methanol	ND	3000	Pass
Methylpropane	ND	5000	Pass
2-Methylpentane	ND	290	Pass
3-Methylpentane	ND	290	Pass
N,N-Dimethylformamide	ND	880	Pass
Pentane	ND	5000	Pass
Propane	ND	5000	Pass
Pyridine	ND	100	Pass
Sulfolane	ND	160	Pass
Tetrahydrofuran	ND	720	Pass
Toluene	ND	890	Pass
Total Xylenes	ND	2170	Pass

† Per Utah state code 4-41a-701(3) Section R68-29-6 ‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: <u>Pass</u>
Performed By: <u>Anil Rokaya</u>
Reviewed By: <u>Riley Hunter</u>

Approved By:

Jordan Morley Laboratory Supervisor 09/21/2023



CERTIFICATE OF ANALYSIS

Sample Information

UDAF Lab #	HP23255-11	Issue Date:	09/20/2023	
Client:	Gold Naturals	Client Email:	jared@goldnaturalshem p.com	
Producer:	Gold Naturals	Sample Type:	Tablets/Capsules	
Description:	Muscle + Joint Softgel	- medium 71mg (1c	t, 2ct, 30ct)	
Batch/Lot Number:	2105024B	Date Received:	09/12/2023	
Date Collected:		Collected By:	Self-Submitted	



Notes:

Testing Summary Status: PASS

			Gtatas: 17.00
Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	09/19/2023	PASS	
Pesticides	09/19/2023	PASS	
Mycotoxins	09/19/2023	PASS	

Approved By:

Date: 09/20/2023

Brandon Forsyth, ♣h.D State Chemist



CERTIFICATE OF ANALYSIS

Cannabinoid Analysis Status: PASS

Sample ID:	HP23255-11	Description:	Muscle + Joint Softgel - medium 71mg (1ct, 2ct, 30ct)
Testing Date:	09/19/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.003 Analysis performed using High-Performance Liquid Chromatography (HPLC-DAD)

Analyte	Abbreviation	CAS Number	% (w/w)	mg/g
Δ9-Tetrahydrocannabidiol	Δ9-ΤΗС	1972-08-03	0.25%	2.5
Δ8-Tetrahydrocannabidiol	Δ8-ΤΗС	5957-75-5	0.04%	0.4
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	NQ	NQ
Δ9-Tetrahydrocannabivarin	THCV	31262-37-0	ND	ND
Cannabidiol	CBD	13956-29-1	6.60%	66
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	0.05%	0.5
Cannabinol	CBN	521-35-7	0.63%	6.3
Cannabigerol	CBG	25654-31-3	2.28%	22.8
Cannabichromene	CBC	20675-51-8	0.22%	2.2
Cannabigerolic acid	CBGA	25555-57-1	NQ	NQ
Cannabichromenic acid	CBCA	20408-52-0	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabicitran	CBTC	31508-71-1	NT	NT
9(R+S)-∆6a,10a-Tetrahydrocannabidiol	Δ3-THC	95720-01-07, 95720- 02-8	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabidiol	(6aR,9R)-Δ10-THC	95543-62-7	ND	ND
(6aR,9S)-Δ10-Tetrahydrocannabidiol	(6aR,9S)-Δ10-THC	95588-87-7	ND	ND
Total Cannabinoids			10.07%	100.7
Total THC			0.25%	2.5
Total CBD			6.60%	66.0
Total THC Analogs			0.29%	2.9

Unknown Cannabinoid Peak Area: 0.0% Status: PASS

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values. Total THC is calculated as $\Delta 9$ -THC + (THCA x 0.877). Total CBD is calculated as CBD + (CBDA x 0.877). Total THC Analogs is calculated as $\Delta 9$ -THC + (THCA x 0.877) + $\Delta 8$ -THC + CBTC. ND = Not Detected, NQ = Not Quantifiable, NT = Not Tested, <LOQ = Below the limit of quantification



CERTIFICATE OF ANALYSIS

Pesticide Analysis Status: PASS

Sample ID:	HP23255-11	Description:	Muscle + Joint Softgel - medium 71mg (1ct, 2ct, 30ct)
Testing Date:	09/19/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.008 Analysis performed using Liquid Chromatography - Mass Spectrometry (LC-MS/MS)

Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status	Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status
Abamectin	71751-41-2	ND	0.5	PASS	Imazlil	35554-44-0	ND	0.2	PASS
Acephate	30560-19-1	ND	0.4	PASS	Imidacloprid	138261-41-3	ND	0.4	PASS
Acequinocyl	57960-19-7	ND	2	PASS	Kresoxim-methyl	143390-89-0	ND	0.4	PASS
Acetamiprid	135410-20-7	ND	0.2	PASS	Malathion	121-75-5	ND	0.2	PASS
Aldicarb	0116-06-03	ND	0.4	PASS	Metalaxyl	57837-19-1	ND	0.2	PASS
Azoxystrobin	131860-33-8	ND	0.2	PASS	Methiocarb	2032-65-7	ND	0.2	PASS
Bifenazate	149877-41-8	ND	0.2	PASS	Methomyl	16752-77-5	ND	0.4	PASS
Bifenthrin	82657-04-03	ND	0.2	PASS	Methyl parathion	298-00-0	ND	0.2	PASS
Boscalid	188425-85-6	ND	0.4	PASS	MGK-264	113-48-4	ND	0.2	PASS
Carbaryl	63-25-2	ND	0.2	PASS	Myclobutanil	88671-89-0	ND	0.2	PASS
Carbofuran	1563-66-2	ND	0.2	PASS	Naled	300-76-5	ND	0.5	PASS
Chlorantraniliprole	500008-45-7	ND	0.2	PASS	Oxamyl	23135-22-0	ND	1	PASS
Chlorfenapyr	122453-73-0	ND	1	PASS	Paclobutrazol	76738-62-0	ND	0.4	PASS
Chlorpyrifos	2921-88-2	ND	0.2	PASS	Permethrins	52645-53-1	ND	0.2	PASS
Clofentezine	74115-24-5	ND	0.2	PASS	Phosmet	0732-11-6	ND	0.2	PASS
Cyfluthrin	68359-37-5	ND	1	PASS	Piperonyl Butoxide	51-03-6	ND	2	PASS
Cypermethrin	52315-07-08	ND	1	PASS	Prallethrin	23031-36-9	ND	0.2	PASS
Daminozide	1596-84-5	ND	1	PASS	Propiconazole	60207-90-1	ND	0.4	PASS
Dichlorvos	62-73-7	ND	0.1	PASS	Propoxur	114-26-1	ND	0.2	PASS
Diazinon	333-41-5	ND	0.2	PASS	Pyrethrins	8003-34-7	ND	1	PASS
Dimethoate	60-51-5	ND	0.2	PASS	Pyridaben	96489-71-3	ND	0.2	PASS
Ethoprophos	13194-48-4	ND	0.2	PASS	Spinosad	168316-95-8	ND	0.2	PASS
Etofenprox	80844-07-01	ND	0.4	PASS	Spiromesifen	283594-90-1	ND	0.2	PASS
Etoxazole	153233-91-1	ND	0.2	PASS	Spirotetramat	203313-25-1	ND	0.2	PASS
Fenoxycarb	72490-01-08	ND	0.2	PASS	Spiroxamine	118134-30-8	ND	0.4	PASS
Fenpyroximate	134098-61-6	ND	0.4	PASS	Tebuconazole	80443-41-0	ND	0.4	PASS
Fipronil	120068-37-3	ND	0.4	PASS	Thiacloprid	111988-49-9	ND	0.2	PASS
Flonicamid	158062-67-0	ND	1	PASS	Thiamethoxam	153719-23-4	ND	0.2	PASS
Fludioxonil	131341-86-1	ND	0.4	PASS	Trifloxystrobin	141517-21-7	ND	0.2	PASS
Hexythiazox	78587-05-0	ND	1	PASS					

Notes:

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CERTIFICATE OF ANALYSIS

Mycotoxin Analysis Status: PASS

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Sample ID:	HP23255-11	Description:	Muscle + Joint Softgel - medium 71mg (1ct, 2ct, 30ct)
Testing Date:	09/19/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.004 Analysis performed using Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Analyte	Result (ppb)	Action Level (ppb)	Status
AflatoxinB1	ND	See Total Aflatoxin	
AflatoxinB2	ND	See Total Aflatoxin	
AflatoxinG1	ND	See Total Aflatoxin	
AflatoxinG2	ND	See Total Aflatoxin	
Total Aflatoxin	0	20	PASS
Ochratoxin A	ND	20	PASS

Notes:

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