

Certificate of Analysis

Sample Name: Organic Lion's Mane Extract
Client: Extract Labs
Sample Code: DTS-260306-030
Matrix Name: Botanical Powder - Fungal
Type / Result: Quality Assurance - Pass



Received Date: Fri, Mar 13, 2026
Published Date: Wed, Mar 25, 2026
Batch/Lot Code: 20251202MBGSLM
Batch Size: N/A
Sample Size: 1U

BETAG ✓
Alpha & Beta Glucans

Approvals

RESULTS REVIEWED BY:

Leslie Nagy
Laboratory Director

Cambium Analytica
Wednesday, Mar 25, 2026

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific
Operations

Cambium Analytica
Wednesday, Mar 25, 2026

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Lab Information

Address: 1230 Woodmere Ave, Traverse City, MI 49686 **Phone:** 231.252.3669 **Accreditation:** ISO/IEC 17025:2017 – #108157



BETAG

Alpha & Beta GlucansLAB-TM-082 - Enzymatic Determination of Alpha & Beta Glucans in Fungi
BETAG-DTS-260306-030-02 - TUE, MAR 24, 2026

Analyte	Value	Value (mg/g)	Action Limit	LOD	LOQ	Status
Alpha Glucan (Starch, Glycogen, Sucrose, and Trehalose)	4.843 g/100g	48.430 mg/g	N/A	0.01 %	0.01 %	N/A
Beta Glucan (1,3:1,6-Beta-Glucan, 1,3-Beta-D-Glucan, and 1,3:1,4-Beta-D-Glucan)	88.212 g/100g	882.120 mg/g	N/A	0.01 %	0.01 %	N/A





Certificate of Analysis
Compliance Test

Client Information:

Extract Labs
1399 Horizon Ave.
Lafayette, CO 80026

Batch # 20251202MBGSLM
Batch Date: 2025-12-02
Extracted From: Organic Lion's Mane

Cultivation Date: 0000-00-00
Production Facility: Extract Labs
Production Date: 0000-00-00

Order # EXT260203-030001
Order Date: 2026-02-03
Sample # AAHJ655
Serving Number: 1.00000

Sampling Date: 2026-02-06
Lab Batch Date: 2026-02-06
Completion Date: 2026-02-20

Initial Gross Weight: 43.800 g
Net Weight: 20.000 g

Number of Units: 1
Net Weight per Package: 20000.000 mg
Sampling Method: MSP 7.3.1



Functional Mushroom Panel **Tested** | Heavy Metals **Passed** | Mycotoxins **Passed** | Pesticides **Passed** | Residual Solvents **Passed**
Water Activity **Tested** | Pathogenic Microbiology **Passed** | Microbiology (qPCR) **Passed**

Functional Mushroom Panel *
Specimen Weight: 0.514 g

Tested
SOP-004 (Shimadzu HPLC)

Dilution Factor: 5.000

Analyte	LOQ (%)	Result (mg/g)	Analyte	LOQ (%)	Result (mg/g)
Adenosine	9.724E-6	0.105	Ganoderic Acid A	0.000182482	<LOQ
Betulin	0.000182482	<LOQ	Ganoderic Acid D	0.000182482	<LOQ
Betulonic Acid	0.000182482	<LOQ	Lupeol	0.000182482	<LOQ
Cordycepin	9.724E-6	<LOQ	Tryptophan	9.724E-6	0.0432
Erinacine A	0.000182482	<LOQ			

Heavy Metals *
Specimen Weight: 247.500 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 202

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ

Mycotoxins FL *
Specimen Weight: 611.440 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.450

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	4.9	20	<LOQ	Aflatoxin G2	2.7100E-1	4.9	20	<LOQ
Aflatoxin B2	7.7000E-2	4.9	20	<LOQ	Ochratoxin A	7.5400E-1	9.8	20	<LOQ
Aflatoxin G1	3.0400E-1	4.9	20	<LOQ					

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions and Abbreviations used in this report: (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity. ACS uses simple acceptance criteria for contaminant panels. Passed - contaminant analytes/microbes are not detected or are at the level below the action limit per FL rule 5K-4.034. Failed - contaminant analytes/microbes are at the level that is equal to or above the action limit per FL rule 5K-4.034. Client supplied the net weight of mg. The results apply to the sample as received. Please note that the analysis and sample image were conducted by an external laboratory. All test results are included in this COA for your reference. External testing COA is available upon request.

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Certificate of Analysis
 Compliance Test

Client Information:

Extract Labs
 1399 Horizon Ave.
 Lafayette, CO 80026

Batch # 20251202MBGSLM
 Batch Date: 2025-12-02
 Extracted From: Organic Lion's Mane

Cultivation Date: 0000-00-00
 Production Facility: ExtractLabs
 Production Date: 0000-00-00

Order # EXT260203-030001
 Order Date: 2026-02-03
 Sample # AAHJ655
 Serving Number: 1.00000

Sampling Date: 2026-02-06
 Lab Batch Date: 2026-02-06
 Completion Date: 2026-02-20

Initial Gross Weight: 43.800 g
 Net Weight: 20.000 g

Number of Units: 1
 Net Weight per Package: 20000.000 mg
 Sampling Method: MSP 7.3.1



Residual Solvents - FL *

Specimen Weight: 19.200 mg

Passed
 SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.009	0.132	8	<LOQ	Heptane	0.001	8	5000	<LOQ
1,2-Dichloroethane	0.000	0.032	2	<LOQ	Hexane	0.068	0.8	250	<LOQ
Acetone	0.015	12	750	<LOQ	Isopropyl alcohol	0.005	8	500	<LOQ
Acetonitrile	0.060	0.96	60	<LOQ	Methanol	0.001	4	250	<LOQ
Benzene	0.000	0.016	1	<LOQ	Methylene chloride	0.003	2	125	<LOQ
Butanes	0.417	13.32	5000	<LOQ	Pentane	0.037	12	750	<LOQ
Chloroform	0.000	0.032	2	<LOQ	Propane	0.031	26.668	5000	<LOQ
Ethanol	0.002	16	NA	28.4	Toluene	0.001	2.4	150	<LOQ
Ethyl Acetate	0.001	6.4	400	<LOQ	Total Xylenes	0.000	7.2	150	<LOQ
Ethyl Ether	0.005	8	500	<LOQ	Trichloroethylene	0.001	0.4	25	<LOQ
Ethylene Oxide	0.004	0.32	5	<LOQ					

Prep. By: 1225

Date: 2026-02-07 14:11:11

Analyzed By: 1225

Date: 2026-02-07 14:11:11

Reviewed By: 1222

Date: 2026-02-11 15:59:08

Lab Batch #: AAHJ655-55

Date: 2026-02-11 15:59:08



Water Activity *

Specimen Weight: 0.500 g

Tested
 SOP13.016 (Water Activity Analyzer)

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.134

Prep. By: 1204

Date: 2026-02-12 15:41:21

Analyzed By: 1204

Date: 2026-02-12 15:41:21

Reviewed By: 1204

Date: 2026-02-12 15:50:07

Lab Batch #: AAHJ655-171

Date: 2026-02-12 15:50:07



Pathogenic Microbiology SAE (MicroArray) *

Specimen Weight: 1048.600 mg

Passed
 SOP13.019 (Micro Array)

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	E.Coli	Absence in 1g
Aspergillus niger	Absence in 1g	Salmonella	Absence in 1g

Prep. By: 1179

Date: 2026-02-09 09:50:13

Analyzed By: 1161

Date: 2026-02-10 09:50:13

Reviewed By: 1161

Date: 2026-02-10 13:53:44

Lab Batch #: AAHJ655-13

Date: 2026-02-10 13:53:44



PCR Total Yeast and Mold *

Specimen Weight: 490.900 mg

Passed
 SOP13.017 (qPCR)

Dilution Factor: 8.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Total Yeast/Mold	1000	100000	Not Detected

Prep. By: 1204

Date: 2026-02-08 08:59:16

Analyzed By: 1204

Date: 2026-02-08 08:59:16

Reviewed By: 1179

Date: 2026-02-09 09:05:21

Lab Batch #: AAHJ655-218

Date: 2026-02-09 09:05:21

Aixia Sun
 Aixia Sun Lab Director/Principal Scientist
 D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Compliance Test

Client Information:

Extract Labs

1399 Horizon Ave.

Lafayette, CO 80026

Batch # 20251202MBGSLM
Batch Date: 2025-12-02
Extracted From: Organic Lion's Mane

Cultivation Date: 0000-00-00
Production Facility: ExtractLabs
Production Date: 0000-00-00

Order # EXT260203-030001
Order Date: 2026-02-03
Sample # AAHJ655
Serving Number: 1.00000

Sampling Date: 2026-02-06
Lab Batch Date: 2026-02-06
Completion Date: 2026-02-20

Initial Gross Weight: 43.800 g
Net Weight: 20.000 g

Number of Units: 1
Net Weight per Package: 20000.000 mg
Sampling Method: MSP 7.3.1

Pesticides *
Specimen Weight: 611.440 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.450

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	3.9900E-1	23.3	300	<LOQ	Fludioxonil	3.6000E-1	24.8	3000	<LOQ
Acephate	1.4100E-1	24.8	3000	<LOQ	Hexythiazox	1.1300E-1	24.8	2000	<LOQ
Acequinocyl	2.1780E+0	24.8	2000	<LOQ	Imazalil	2.5800E-1	24.8	100	<LOQ
Acetamiprid	1.4000E-1	24.8	3000	<LOQ	Imidacloprid	4.0200E-1	24.8	3000	<LOQ
Aldicarb	2.0300E-1	24.8	100	<LOQ	Kresoxim Methyl	1.8200E-1	24.8	1000	<LOQ
Azoxystrobin	1.8800E-1	24.8	3000	<LOQ	Malathion	2.2300E-1	24.8	2000	<LOQ
Bifenazate	8.6000E-2	24.8	3000	<LOQ	Metaxyl	2.7000E-1	24.8	3000	<LOQ
Bifenthrin	1.0000E-1	24.8	500	<LOQ	Methiocarb	1.1800E-1	24.8	100	<LOQ
Boscalid	5.9500E-1	24.8	3000	<LOQ	Methomyl	6.4000E-2	24.8	100	<LOQ
Captan	1.8500E+0	323	3000	<LOQ	methyl-Parathion	8.2000E-1	24.8	100	<LOQ
Carbaryl	1.2200E-1	24.8	500	<LOQ	Mevinphos	9.3000E-2	24.8	100	<LOQ
Carbofuran	8.6000E-2	24.8	100	<LOQ	Myclobutanil	5.7300E-1	24.8	3000	<LOQ
Chlorantraniliprole	8.4000E-2	24.8	3000	<LOQ	Naled	6.9000E-2	24.8	500	<LOQ
Chlordane	1.4100E+0	24.8	100	<LOQ	Oxamyl	4.1000E-2	24.8	500	<LOQ
Chlorfenapyr	1.5000E+0	24.8	100	<LOQ	Paclobutrazol	1.8600E-1	24.8	100	<LOQ
Chlormequat Chloride	2.0500E-1	24.8	3000	<LOQ	Pentachloronitrobenzene	2.2000E-1	24.8	200	<LOQ
Chlorpyrifos	1.0900E-1	24.8	100	<LOQ	Permethrin	6.2400E-1	24.8	1000	<LOQ
Clofentezine	2.1200E-1	24.8	500	<LOQ	Phosmet	1.2700E-1	24.8	200	<LOQ
Coumaphos	2.0600E-1	24.8	100	<LOQ	Piperonylbutoxide	1.4900E-1	24.8	3000	<LOQ
Cyfluthrin	9.8000E-1	24.8	1000	<LOQ	Prallethrin	1.4760E+0	24.8	400	<LOQ
Cypermethrin	9.8500E-1	24.8	1000	<LOQ	Propiconazole	2.9400E-1	24.8	1000	<LOQ
Daminozide	1.6550E+0	24.8	100	<LOQ	Propoxur	1.0000E-1	24.8	100	<LOQ
Diazinon	2.1200E-1	24.8	200	<LOQ	Pyrethrins	6.7000E-2	12.9	1000	<LOQ
Dichlorvos	1.1300E+0	24.8	100	<LOQ	Pyridaben	1.4000E-1	24.8	3000	<LOQ
Dimethoate	6.3000E-2	24.8	100	<LOQ	Spinetoram	4.2400E-1	24.8	3000	<LOQ
Dimethomorph	2.5810E+0	24.8	3000	<LOQ	Spinosad	2.8000E-2	24.8	3000	<LOQ
Ethoprophos	1.5100E-1	24.8	100	<LOQ	Spiromesifen	1.2000E-1	24.8	3000	<LOQ
Etofenprox	1.7200E-1	24.8	100	<LOQ	Spirotetramat	2.1100E-1	24.8	3000	<LOQ
Etoxazole	8.6600E-1	24.8	1500	<LOQ	Spiroxamine	5.3300E-1	24.8	100	<LOQ
Fenhexamid	5.8800E-1	24.8	3000	<LOQ	Tebuconazole	2.3000E-1	24.8	1000	<LOQ
Fenoxycarb	2.7400E-1	24.8	100	<LOQ	Thiacloprid	1.7000E-1	24.8	100	<LOQ
Fenpyroximate	1.9800E-1	24.8	2000	<LOQ	Thiamethoxam	1.7900E-1	24.8	1000	<LOQ
Fipronil	3.1700E-1	24.8	100	<LOQ	Trifloxystrobin	1.3400E-1	24.8	3000	<LOQ
Fonicamid	4.6600E-1	24.8	2000	<LOQ					

Prep. By: 1035 Date: 2026-02-09 11:50:10 Analyzed By: 1035 Date: 2026-02-09 11:50:10
Reviewed By: 1222 Date: 2026-02-12 19:46:05 Lab Batch #: AAHJ655-202 Date: 2026-02-12 19:46:05

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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