The Functional Mushroom Company LTD

8 Queen Street, Seaton, EX12 2NY, UK

Sample Information



Name: Chaga
Sample ID: 26060025-4
Batch ID:
Matrix: Concentrate
Lab Temp: 20 °C

04 Jun '26	Received	CQ
04 Jun '26	Extracted	CB
05 Jun '26	Analyzed	CB
08 Jun '26	Reported	CQ

Chaga Potency Panel

Quantification of bioactive compounds found in Chaga (Inonotus obliquus), a functional mushroom associated with antioxidant and immune-supportive properties.

Method: Functional Potency by HPLC, Betulinic Acid by HPLC

PJLA Testing Accreditation #133455

CHGA

Compound	LOD (mg/g)	Result (mg/g)	Percent Result (%)
Adenine (hemisulfate)	*0.0097 mg/g*	*ND*	*ND*
Adenosine	0.0097 mg/g	0.1827 mg/g	0.018 %
Betulinic Acid	0.2535 mg/g	0.3448 mg/g	0.035 %
Hypoxanthine	0.0097 mg/g	0.1024 mg/g	0.010 %

The following compounds are not currently part of an ISO 17025 accredited method: Betulinic Acid.

Accreditations

Altitude Consulting is accredited to the **ISO/IEC 17025:2017** standard for testing laboratories.

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PJLA Testing Accreditation #133455

Report approved by:

Colton Brook, Lab Director

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Heavy Metals

Screening for toxic elemental contaminants that may pose health risks.
Method: Heavy metals by ICP-MS

METL

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Arsenic	0.0048 ppm	0.0144 ppm	0.0824 ppm
Cadmium	0.0016 ppm	0.0049 ppm	0.0263 ppm
Lead	0.0039 ppm	0.0117 ppm	0.0440 ppm
Mercury	*0.0008 ppm*	*0.0023 ppm*	*ND*

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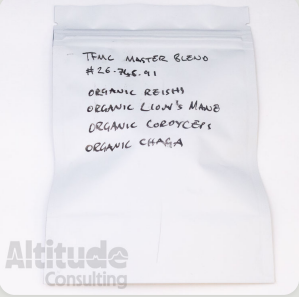
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Pesticide Screening

PEST

Screening for pesticide residues that may pose health risks to consumers.

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Abamectin	0.0139 ppb	5.0000 ppb	ND
Acephate	0.2755 ppb	5.0000 ppb	ND
Acequinocyl	0.2707 ppb	5.0000 ppb	ND
Acetamiprid	0.2250 ppb	5.0000 ppb	ND
Aldicarb	0.4206 ppb	5.0000 ppb	ND
Allethrin	0.3601 ppb	5.0000 ppb	ND
Atrazine	1.0640 ppb	5.0000 ppb	ND
Azoxystrobin	0.1122 ppb	5.0000 ppb	ND
Benzovindiflupyr	0.3651 ppb	5.0000 ppb	ND
Bifenazate	0.3285 ppb	5.0000 ppb	ND
Bifenthrin	0.3469 ppb	5.0000 ppb	ND
Boscalid	0.3057 ppb	5.0000 ppb	ND
Buprofezin	0.3000 ppb	5.0000 ppb	ND
Carbaryl	0.3165 ppb	5.0000 ppb	ND
Carbofuran	0.3317 ppb	5.0000 ppb	ND
Chlorantraniliprole	0.4629 ppb	5.0000 ppb	ND
Chlorphenapyr	3.0000 ppb	10.0000 ppb	ND
Chlorpyrifos	0.2889 ppb	5.0000 ppb	ND
Clofentezine	0.3505 ppb	5.0000 ppb	ND
Clothianidin	0.5370 ppb	5.0000 ppb	ND
Coumaphos	0.2529 ppb	5.0000 ppb	ND
Cyantraniliprole	0.5411 ppb	5.0000 ppb	ND

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Cyfluthrin	0.6072 ppb	10.0000 ppb	ND
Cyhalothrin-lambda	1.8598 ppb	5.0000 ppb	ND
Cypermethrin	0.3065 ppb	10.0000 ppb	ND
Cyprodinil	0.4377 ppb	5.0000 ppb	ND
Daminozide	4.9907 ppb	10.0000 ppb	ND
Deltamethrin	0.8431 ppb	10.0000 ppb	ND
Diazinon	0.2055 ppb	5.0000 ppb	ND
Dichlorvos	0.9888 ppb	10.0000 ppb	ND
Dimethoate	0.2585 ppb	5.0000 ppb	ND
Dimethomorph	0.1014 ppb	3.0000 ppb	<3.0000 ppb
Dinotefuran	0.4004 ppb	5.0000 ppb	ND
Diuron	0.7923 ppb	5.0000 ppb	ND
Dodemorph	0.2713 ppb	5.0000 ppb	ND
Endosulfan-alpha	3.0000 ppb	10.0000 ppb	ND
Endosulfan-beta	3.0000 ppb	10.0000 ppb	ND
Endosulfan sulfate	3.0000 ppb	10.0000 ppb	ND
Ethoprophos	0.4738 ppb	5.0000 ppb	ND
Etofenprox	0.4114 ppb	5.0000 ppb	ND
Etoxazole	0.1839 ppb	5.0000 ppb	ND
Etridiazole	3.0000 ppb	10.0000 ppb	ND
Fenhexamid	0.9450 ppb	5.0000 ppb	ND
Fenoxycarb	0.4316 ppb	10.0000 ppb	ND
Fenpyroximate	0.3098 ppb	5.0000 ppb	ND
Fensulfothion	0.3684 ppb	5.0000 ppb	ND
Fenthion	3.0000 ppb	10.0000 ppb	ND
Fenvalerate	3.0000 ppb	10.0000 ppb	ND
Fipronil	0.2707 ppb	5.0000 ppb	ND
Flonicamid	0.3493 ppb	5.0000 ppb	ND
Fludioxonil	0.2632 ppb	5.0000 ppb	ND
Fluopyram	0.3817 ppb	5.0000 ppb	ND
Hexythiazox	0.1977 ppb	5.0000 ppb	ND
Imazalil	0.4019 ppb	5.0000 ppb	ND
Imidacloprid	0.2650 ppb	5.0000 ppb	ND
Iprodione	3.0000 ppb	10.0000 ppb	ND
Kinoprene	3.0000 ppb	10.0000 ppb	ND
Kresoxim-methyl	0.5115 ppb	5.0000 ppb	ND
Malathion	0.3036 ppb	5.0000 ppb	ND
Metalaxyl	0.2756 ppb	5.0000 ppb	ND
Methiocarb	2.3105 ppb	5.0000 ppb	ND

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Methomyl	*0.3790 ppb*	*5.0000 ppb*	*ND*
Methoprene	*0.4892 ppb*	*5.0000 ppb*	*ND*
Mevinphos	0.0432 ppb	5.0000 ppb	<5.0000 ppb
MGK-264	0.1438 ppb	3.0000 ppb	<3.0000 ppb
Myclobutanil	*0.4417 ppb*	*5.0000 ppb*	*ND*
Naled	*0.4305 ppb*	*5.0000 ppb*	*ND*
Novaluron	*0.2164 ppb*	*5.0000 ppb*	*ND*
Other Pesticides	*0.1000 ppb*	*1.0000 ppb*	*ND*
Oxamyl	*0.3760 ppb*	*5.0000 ppb*	*ND*
Paclobutrazol	*1.4227 ppb*	*5.0000 ppb*	*ND*
Parathion-methyl	*3.0000 ppb*	*10.0000 ppb*	*ND*
Permethrins	0.2109 ppb	3.0000 ppb	<3.0000 ppb
Phenothrin	*0.3060 ppb*	*5.0000 ppb*	*ND*
Phosmet	*0.2483 ppb*	*5.0000 ppb*	*ND*
Pirimicarb	*0.3458 ppb*	*5.0000 ppb*	*ND*
Prallethrin	*0.6623 ppb*	*10.0000 ppb*	*ND*
Propiconazole	*0.5658 ppb*	*5.0000 ppb*	*ND*
Propoxur	*0.7835 ppb*	*5.0000 ppb*	*ND*
Pryraclostrobin	*0.2379 ppb*	*5.0000 ppb*	*ND*
Pyridaben	*0.2980 ppb*	*5.0000 ppb*	*ND*
Pyriproxyfen	*0.8551 ppb*	*5.0000 ppb*	*ND*
Quintozene	*3.0000 ppb*	*10.0000 ppb*	*ND*
Resmethrin	*0.2008 ppb*	*5.0000 ppb*	*ND*
Spinetoram	0.1177 ppb	4.0000 ppb	<4.0000 ppb
Spinosads	0.0545 ppb	1.0000 ppb	<1.0000 ppb
Spirodiclofen	*0.1830 ppb*	*5.0000 ppb*	*ND*
Spiromesifen	*0.2912 ppb*	*5.0000 ppb*	*ND*
Spirotetramat	*0.4266 ppb*	*5.0000 ppb*	*ND*
Spiroxamine	*0.3745 ppb*	*5.0000 ppb*	*ND*
Tebuconazole	*0.3302 ppb*	*5.0000 ppb*	*ND*
Tebufenozide	*0.2154 ppb*	*5.0000 ppb*	*ND*
Teflubenzuron	*0.4437 ppb*	*5.0000 ppb*	*ND*
Tetrachlorvinphos	*0.1330 ppb*	*5.0000 ppb*	*ND*
Tetramethrin	*0.2380 ppb*	*5.0000 ppb*	*ND*
Thiabendazole	*0.8056 ppb*	*5.0000 ppb*	*ND*
Thiacloprid	*0.3999 ppb*	*5.0000 ppb*	*ND*
Thiamethoxam	*0.3232 ppb*	*5.0000 ppb*	*ND*
Thiophanate-methyl	*1.2413 ppb*	*5.0000 ppb*	*ND*
Trifloxystrobin	*0.1938 ppb*	*5.0000 ppb*	*ND*

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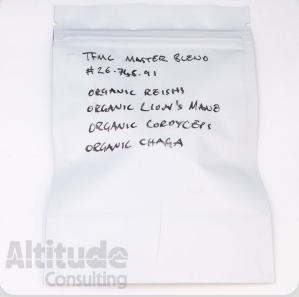
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09 Jun '26	Analyzed	CQ
09 Jun '26	Reported	CQ

Microbials

Screening for common harmful microbes that may indicate contamination or illness risk.
Method: Microbials by polymerase chain reaction (PCR) and plating methods.

MCRO

Analyte	LOD (cfu/g)	Result (cfu/g)
Aerobic Bacteria	*10.0000 cfu/g*	*ND*
E. coli (STEC)	*1.0000 mg/g*	*ND*
Salmonella	*1.0000 mg/g*	*ND*
Total Coliform	*10.0000 cfu/g*	*ND*
Yeast and Mold	*100.0000 cfu/g*	*ND*

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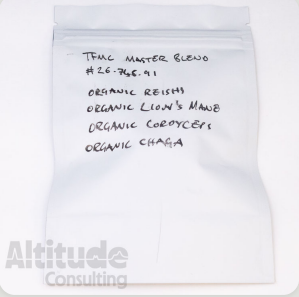
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04 Jun '26	Analyzed	CB
08 Jun '26	Reported	CQ

Residual Solvents

Analysis for traces of residual solvents from processing.
Method: Residual Solvents by GC-MS

PJLA Testing Accreditation #133455

SOLV

Compound	LOD (ppm)	Results (ppm)
2-Methylbutane	*11.4943 ppm*	*ND*
Acetone	2.2989 ppm	3.1494 ppm
Acetonitrile	*22.9885 ppm*	*ND*
Benzene	*1.1494 ppm*	*ND*
Butane	*2.2989 ppm*	*ND*
Ethanol	11.4943 ppm	1741.2414 ppm
Ethyl Acetate	2.2989 ppm	2.4023 ppm
Ethylbenzene	*2.2989 ppm*	*ND*
Isobutane	*2.2989 ppm*	*ND*
Isopropanol	*11.4943 ppm*	*ND*
Methanol	*11.4943 ppm*	*ND*
Methylene Chloride	*11.4943 ppm*	*ND*
m+p Xylene	*1.1494 ppm*	*ND*
n-Heptane	*2.2989 ppm*	*ND*
n-Hexane	*11.4943 ppm*	*ND*
n-Pentane	*2.2989 ppm*	*ND*
o-Xylene	*1.1494 ppm*	*ND*
Propane	*11.4943 ppm*	*ND*
Tetrahydrofuran	*2.2989 ppm*	*ND*
Toluene	*1.1494 ppm*	*ND*

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A note on results at or above 100%

Sometimes an individual analyte or a calculated total comes back at or slightly above 100%. This isn't an error. Every quantitative measurement has a margin of uncertainty, and when a sample is very high in purity or concentration, that margin can push the reported value past 100%. Per our methods, accredited to the ISO/IEC 17025 standard and adhering to U.S. Pharmacopeia (USP) guidelines, we report values exactly as measured rather than rounding or capping at 100%.

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