

Certificate of Analysis

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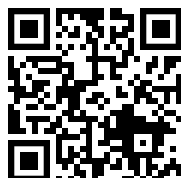
Sample Name : Thunder Cookies

Sample ID	220250724-058	Matrix	Concentrate		
Tested for	Clouds by Stro				
Sampled		Received	7/21/25	Reported	7/30/25
Analyses executed	CAN+				



Cannabidiol / CBD	ND
D-9 Tetrahydrocannabinol / THC	0.090%
Tetrahydrocannabinolic Acid / THCa	71.408%
Total THC*	62.215%
Residual Pesticides	PASS
Mycotoxins	PASS
Heavy Metals	PASS
Microbial Impurities	PASS
Residual Solvents	PASS

UI Unidentified
 ND Not Detected
 N/A Not Applicable
 NT Not Reported
 LOD Limit of Detection
 LOQ Limit of Quantification
 <LOQ Detected
 >ULOL Above upper limit of linearity
 CFU/g Colony Forming Units per 1 gram
 TNTC Too Numerous to Count



Authorized Signature


 Michael Pearson, Lab Manager

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Cannabinoids Analysis

Instrument HPLC-VWD | Method SOP-001 HPLC Hemp by UV Detection

The expanded Uncertainty of the Cannabinoid analysis is approximately $\pm 7.806\%$ at the 95% Confidence Level

Analyte	LOD/LOQ (mg/g)	Result (%)	Result (mg/g)
Cannabidivarin CBDV	0.002 / 0.012	ND	ND
Cannabidiolic Acid CBDa	0.001 / 0.026	ND	ND
Cannabigerol Acid CBGa	0.002 / 0.007	ND	ND
Cannabidiol CBD	0.004 / 0.011	ND	ND
Cannabigerol CBG	0.002 / 0.006	ND	ND
Tetrahydrocannabivarin THCV	0.002 / 0.012	ND	ND
Cannabinol CBN	0.001 / 0.007	ND	ND
Tetrahydrocannabinol Δ^9 -THC	0.002 / 0.014	0.090%	0.9
Delta 8 Tetrahydrocannabinol Δ^8 -THC	0.01 / 0.02	ND	ND
Cannabicyol CBL	0.003 / 0.010	ND	ND
Cannabichromene CBC	0.003 / 0.010	ND	ND
Tetrahydrocannabinolic Acid THCa	0.001 / 0.005	71.408%	714.08
Total THC (0.87* THCa + D9 THC)		62.215%	622.1496
Total THC (0.87* THCa + D9 THC) + Δ^8 -THC			622.1496
Total CBD (0.877* CBDa + CBD)			ND
Total CBG (0.877* CBGa + CBG)			ND
Total Cannabinoids Analyzed			622.1496

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Pesticide Analysis

Analyte	LOQ (PPM)	Limit (PPM)	Mass (ppm)	Status
Abamectin	0.050	0.10	ND	Pass
Acephate	0.050	0.10	ND	Pass
Acequinocyl	0.050	0.10	ND	Pass
Acetamiprid	0.050	0.10	ND	Pass
Aldicarb	0.050	0.10	ND	Pass
Azoxystrobin	0.050	0.10	ND	Pass
Bifenazate	0.050	0.10	ND	Pass
Bifenthrin	0.050	3.00	ND	Pass
Boscalid	0.050	0.10	ND	Pass
Captan	0.050	0.70	ND	Pass
Carbaryl	0.050	0.50	ND	Pass
Carbofuran	0.050	0.00	ND	Pass
Chlorantraniliprole	0.050	10.00	ND	Pass
Chlordane	0.050	0.00	ND	Pass
Chlorfenapyr	0.050	0.00	ND	Pass
Chlorpyrifos	0.050	0.10	ND	Pass
Clofentezine	0.050	2.00	ND	Pass
Coumaphos	0.050	1.00	ND	Pass
Cyfluthrin	0.050	0.00	ND	Pass
Cypermethrin	0.050	0.00	ND	Pass
Daminozide	0.050	0.10	ND	Pass
DDVP	0.050	0.10	ND	Pass
Diazinon	0.050	0.00	ND	Pass
Dimethoate	0.050	0.10	ND	Pass
Dimethomorph	0.050	0.10	ND	Pass
Ethoprophos	0.050	0.00	ND	Pass
Etofenprox	0.050	0.00	ND	Pass
Etoxazole	0.050	0.10	ND	Pass
Fenhexamid	0.050	0.10	ND	Pass
Fenoxycarb	0.050	0.00	ND	Pass
Fenpyroximate	0.050	0.10	ND	Pass
Fipronil	0.050	0.00	ND	Pass
Flonicamid	0.050	0.10	ND	Pass
Fludioxonil	0.050	0.10	ND	Pass
Hexythiazox	0.050	0.10	ND	Pass
Imazalil	0.050	0.00	ND	Pass
Imidacloprid	0.050	5.00	ND	Pass
Kresoxim Methyl	0.050	0.10	ND	Pass

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Malathion	0.050	0.50	ND	Pass
Metaxyl	0.050	2.00	ND	Pass
Methiocarb	0.050	0.00	ND	Pass
Methomyl	0.050	1.00	ND	Pass
Methyl Parathion	0.050	0.00	ND	Pass
Mevinphos	0.050	0.00	ND	Pass
Myclobutanil	0.050	0.10	ND	Pass
Naled	0.050	0.10	ND	Pass
Oxamyl	0.050	0.50	ND	Pass
Paclobutrazol	0.050	0.00	ND	Pass
Pentachloronitrobenzene	0.050	0.10	ND	Pass
Permethrin	0.050	0.50	ND	Pass
Phosmet	0.050	0.10	ND	Pass
Piperonyl Butoxide	0.050	3.00	ND	Pass
Prallethrin	0.050	0.10	ND	Pass
Propiconazole	0.050	0.10	ND	Pass
Propoxur	0.050	0.00	ND	Pass
Pyrethrins	0.050	0.50	ND	Pass
Pyridaben	0.050	0.10	ND	Pass
Spinetoram	0.050	0.10	ND	Pass
Spinosad	0.050	0.10	ND	Pass
Spiromesifen	0.050	0.10	ND	Pass
Spirotetramat	0.050	0.10	ND	Pass
Spiroxamine	0.050	0.00	ND	Pass
Tebuconazole	0.050	0.10	ND	Pass
Thiacloprid	0.050	0.00	ND	Pass
Thiamethoxam	0.050	5.00	ND	Pass
Trifloxystrobin	0.050	0.10	ND	Pass

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Mycotoxins

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status
Aflatoxin B1	0.02	0.02	ND	Pass
Aflatoxin B2	0.02	0.02	ND	Pass
Aflatoxin G1	0.02	0.02	ND	Pass
Aflatoxin G2	0.02	0.02	ND	Pass
Ochratoxin A	0.02	0.02	ND	Pass

Heavy Metal Analysis

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status
Arsenic	0.050	0.2	ND	Pass
Cadmium	0.050	0.2	ND	Pass
Lead	0.125	0.5	ND	Pass
Mercury	0.025	0.1	ND	Pass

Microbial Analysis

Analyte	LOQ (CFU/g)	Result (CFU/g)	Status
Salmonella spp.	< 1	Absent	Pass
Total E. coli	< 1	Absent	Pass
Total Coliforms	< 100	Absent	Pass
Total Yeast & Mold	< 100,000	6000	Pass

Method References:

Multi-Residue Pesticide Analysis - (AOAC_200701)

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

Mycotoxins Analysis - 5 compounds (FDA_MYC)

Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).

Heavy Metals Analysis - 4 elements (EPA_200.8)

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).

Microbial Analysis - (AOAC_2014_991_997)

Official Methods of Analysis, AOAC Official Method 2014.01 Salmonella in Selected Foods, AOAC Official Method 991.14 Coliform and Escherichia coli Counts in Foods, AOAC Official Method 997.02 Yeast and Mold Counts in Foods; AOAC INTERNATIONAL (modified).