Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 83.440 mg/unit

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 2.716 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 170.24 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8-THC + CBL + CBN

TOTAL CBG: 81.956 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.392 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: ND

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 03/15/2025

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
Δ^9-THC	*0.002 / 0.014*	*±0.1636*	2.980	0.2655
CBG	*0.002 / 0.006*	*±0.1420*	2.927	0.2608
CBD	*0.004 / 0.011*	*±0.0036*	0.097	0.0086
Δ^8-THC	*0.01 / 0.02*	*±0.003*	0.06	0.005
CBC	*0.003 / 0.010*	*±0.0005*	0.014	0.0012
THCa	*0.001 / 0.005*	*N/A*	ND	ND
THCV	*0.002 / 0.012*	*N/A*	ND	ND
THCVa	*0.002 / 0.019*	*N/A*	ND	ND
CBDa	*0.001 / 0.026*	*N/A*	ND	ND
CBDV	*0.002 / 0.012*	*N/A*	ND	ND
CBDVa	*0.001 / 0.018*	*N/A*	ND	ND
CBGa	*0.002 / 0.007*	*N/A*	ND	ND
CBL	*0.003 / 0.010*	*N/A*	ND	ND
CBN	*0.001 / 0.007*	*N/A*	ND	ND
CBCa	*0.001 / 0.015*	*N/A*	ND	ND
SUM OF CANNABINOIDS			6.08 mg/mL	0.542%

Unit Mass: 28 milliliters per Unit / Serving Size: 1 milliliters per Serving

Δ^9-THC per Unit	*110 per-package limit*	83.440 mg/unit	PASS
Δ^9-THC per Serving		2.980 mg/serving	PASS
Total THC per Unit		83.440 mg/unit	
Total THC per Serving		2.980 mg/serving	
CBD per Unit		2.716 mg/unit	
CBD per Serving		0.097 mg/serving	
Total CBD per Unit		2.716 mg/unit	
Total CBD per Serving		0.097 mg/serving	
Sum of Cannabinoids per Unit		170.24 mg/unit	
Sum of Cannabinoids per Serving		6.08 mg/serving	
Total Cannabinoids per Unit		170.24 mg/unit	
Total Cannabinoids per Serving		6.08 mg/serving	

DENSITY TEST RESULT

1.1223 g/mL

Tested 03/15/2025

Method: QSP 7870 - Sample Preparation

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232 North Plaza Drive
Nicholasville, KY 40356

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Certificate of Analysis

Black Cherry Mixer 2

Sample ID: SA-250404-59791
Lot: P-25-056-A
Type: Finished Product - Ingestible
Matrix: Oil / Liquid - Other

Received: 04/07/2025
Completed: 04/09/2025

Summary

Test	Date Tested	Status
Residual Solvents	04/09/2025	Tested

Residual Solvents by HS-GC-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetone	167	500	ND	Ethylene Oxide	0.5	1	ND
Acetonitrile	14	41	ND	Heptane	167	500	ND
Benzene	0.5	1	ND	n-Hexane	10	29	ND
Butane	167	500	ND	Isobutane	167	500	ND
1-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanol	167	500	ND	Isopropyl Alcohol	167	500	ND
2-Butanone	167	500	ND	Isopropylbenzene	167	500	ND
Chloroform	2	6	ND	Methanol	100	300	ND
Cyclohexane	129	388	ND	2-Methylbutane	10	29	ND
1,2-Dichloroethane	0.5	1	ND	Methylene Chloride	20	60	ND
1,2-Dimethoxyethane	4	10	ND	2-Methylpentane	10	29	ND
Dimethyl Sulfoxide	167	500	ND	3-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND	n-Pentane	167	500	ND
2,2-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
2,3-Dimethylbutane	10	29	ND	n-Propane	167	500	ND
N,N-Dimethylformamide	30	88	ND	1-Propanol	167	500	ND
2,2-Dimethylpropane	167	500	ND	Pyridine	7	20	ND
1,4-Dioxane	13	38	ND	Tetrahydrofuran	24	72	ND
Ethanol	167	500	ND	Toluene	30	89	ND
2-Ethoxyethanol	6	16	ND	Trichloroethylene	3	8	ND
Ethyl Acetate	167	500	ND	Xylenes (o-, m-, and p-)	73	217	ND
Ethyl Ether	167	500	ND				
Ethylbenzene	3	7	ND				

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone
CCO
Date: 04/09/2025

Tested By: Kelsey Rogers
Scientist
Date: 04/09/2025

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Nicholasville, KY 40356

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Certificate of Analysis

Black Cherry Mixer 1

Sample ID: SA-250404-59790
Batch: P-25-056-A
Type: Finished Product - Ingestible
Matrix: Oil / Liquid - Other
Unit Mass (g):

Received: 04/07/2025
Completed: 04/16/2025

Terpenes by GC-MS

Analyte	LOD (%)	LOQ (%)	Result (%)	Analyte	LOD (%)	LOQ (%)	Result (%)
α-Bisabolol	0.002	0.01	ND	Limonene	0.002	0.01	ND
(+)-Borneol	0.002	0.01	ND	Linalool	0.002	0.01	ND
Camphene	0.002	0.01	ND	β-myrcene	0.002	0.01	ND
Camphor	0.004	0.02	ND	Nerol	0.002	0.01	ND
3-Carene	0.002	0.01	ND	cis-Nerolidol	0.002	0.01	ND
β-Caryophyllene	0.002	0.01	ND	trans-Nerolidol	0.002	0.01	ND
Caryophyllene Oxide	0.002	0.01	ND	Ocimene	0.002	0.01	ND
α-Cedrene	0.002	0.01	ND	α-Phellandrene	0.002	0.01	ND
Cedrol	0.002	0.01	ND	α-Pinene	0.002	0.01	ND
Eucalyptol	0.002	0.01	ND	β-Pinene	0.002	0.01	ND
Fenchone	0.004	0.02	ND	Pulegone	0.002	0.01	ND
Fenchyl Alcohol	0.002	0.01	ND	Sabinene	0.002	0.01	ND
Geraniol	0.002	0.01	ND	Sabinene Hydrate	0.002	0.01	ND
Geranyl Acetate	0.002	0.01	ND	α-Terpinene	0.002	0.01	ND
Guaiol	0.002	0.01	ND	γ-Terpinene	0.002	0.01	ND
Hexahydrothymol	0.002	0.01	ND	α-Terpineol	0.001	0.005	ND
α-Humulene	0.002	0.01	ND	γ-Terpineol	0.001	0.005	ND
Isoborneol	0.002	0.01	ND	Terpinolene	0.002	0.01	ND
Isopulegol	0.002	0.01	ND	Valencene	0.002	0.01	ND
				Total Terpenes (%)			**0.000**

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates

Generated By: Ryan Bellone
CCO
Date: 04/16/2025

Tested By: Kelsey Rogers
Scientist
Date: 04/08/2025

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Black Cherry Mixer 1

Sample ID: SA-250404-59790
Batch: P-25-056-A
Type: Finished Product - Ingestible
Matrix: Oil / Liquid - Other
Unit Mass (g):

Received: 04/07/2025
Completed: 04/16/2025

Heavy Metals by ICP-MS

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Arsenic	0.002	0.02	ND
Cadmium	0.001	0.02	ND
Lead	0.002	0.02	ND
Mercury	0.012	0.05	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates

Generated By: Ryan Bellone
CCO
Date: 04/16/2025

Tested By: Chris Farman
Scientist
Date: 04/09/2025

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Certificate of Analysis

Black Cherry Mixer 1

Sample ID: SA-250404-59790
Batch: P-25-056-A
Type: Finished Product - Ingestible
Matrix: Oil / Liquid - Other
Unit Mass (g):

Received: 04/07/2025
Completed: 04/16/2025

Pesticides by LC-MS/MS and GC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Acetamiprid	30	100	ND	Hexythiazox	30	100	ND
Aldicarb	30	100	ND	Imazalil	30	100	ND
Azoxystrobin	30	100	ND	Imidacloprid	30	100	ND
Bifenazate	30	100	ND	Kresoxim methyl	30	100	ND
Bifenthrin	30	100	ND	Malathion	30	100	ND
Boscalid	30	100	ND	Metalaxyl	30	100	ND
Carbaryl	30	100	ND	Methiocarb	30	100	ND
Carbofuran	30	100	ND	Methomyl	30	100	ND
Chloranthraniliprole	30	100	ND	Mevinphos	30	100	ND
Chlorfenapyr	30	100	ND	Myclobutanil	30	100	ND
Chlorpyrifos	30	100	ND	Naled	30	100	ND
Clofentezine	30	100	ND	Oxamyl	30	100	ND
Coumaphos	30	100	ND	Paclobutrazol	30	100	ND
Cypermethrin	30	100	ND	Permethrin	30	100	ND
Diazinon	30	100	ND	Phosmet	30	100	ND
Dimethoate	30	100	ND	Piperonyl Butoxide	30	100	ND
Dimethomorph	30	100	ND	Prallethrin	30	100	ND
Ethoprophos	30	100	ND	Propiconazole	30	100	ND
Etofenprox	30	100	ND	Propoxur	30	100	ND
Etoxazole	30	100	ND	Pyrethrins	30	100	ND
Fenhexamid	30	100	ND	Pyridaben	30	100	ND
Fenoxycarb	30	100	ND	Spinetoram	30	100	ND
Fenpyroximate	30	100	ND	Spinosad	30	100	ND
Fipronil	30	100	ND	Spiromesifen	30	100	ND
Flonicamid	30	100	ND	Spirotetramat	30	100	ND
Fludioxonil	30	100	ND	Spiroxamine	30	100	ND
				Tebuconazole	30	100	ND
				Thiacloprid	30	100	ND
				Thiamethoxam	30	100	ND
				Trifloxystrobin	30	100	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates

Generated By: Ryan Bellone
CCO
Date: 04/16/2025

Tested By: Anthony Mattingly
Scientist
Date: 04/09/2025

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Certificate of Analysis

Black Cherry Mixer 1

Sample ID: SA-250404-59790
Batch: P-25-056-A
Type: Finished Product - Ingestible
Matrix: Oil / Liquid - Other
Unit Mass (g):

Received: 04/07/2025
Completed: 04/16/2025

Mycotoxins by LC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
B1	1	5	ND
B2	1	5	ND
G1	1	5	ND
Ochratoxin A	1	5	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates

Generated By: Ryan Bellone
CCO
Date: 04/16/2025

Tested By: Anthony Mattingly
Scientist
Date: 04/09/2025

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Certificate of Analysis

Black Cherry Mixer 1

Sample ID: SA-250404-59790
Batch: P-25-056-A
Type: Finished Product - Ingestible
Matrix: Oil / Liquid - Other
Unit Mass (g):

Received: 04/07/2025
Completed: 04/16/2025

Microbials by PCR and Plating

Analyte	LOD (CFU/g)	Result (CFU/g)	Result (Qualitative)
Total aerobic count	10	ND	
Total coliforms	10	ND	
Generic E. coli	10	ND	
Listeria spp.	1		Not Detected per 1 gram
Salmonella spp.	1		Not Detected per 1 gram
Shiga-toxin producing E. coli (STEC)	1		Not Detected per 1 gram
Total yeast and mold count (TYMC)	10	ND	

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone
CCO
Date: 04/16/2025

Tested By: Sara Cook
Laboratory Technician
Date: 04/11/2025