

Certificate of Analysis

Produced: Aug 25, 2025

Sample: Mary's Tails Tincture (Bacon) (Tincture) • Client: Mary's Nutritionals • Batch: Pass



Matrix: Tincture
Density: .9367 g/ml
Category: Tinctures
Sample ID: ICM-250819-043
Collected on: Aug 19, 2025
Received on: Aug 19, 2025
Batch Size: 300 Units
Sample Size: 5 Units
Received By: Vanessa Whitehead
Package Size: 28.67 g
Serving Size: 0.18734 g

Batch Result: Pass

Potency	Pass	Microbial	Pass
Foreign	Pass	Pesticides	Pass
Metals	Pass	Solvents	Pass
Homogeneity	Pass	Water Activity	Pass

Cannabinoid Overview

Total THC:	0.000 mg/pkg
Total CBD:	326.149 mg/pkg
Total Cannabinoids:	331.234 mg/pkg

POT-001: POT-001: Cannabinoids by HPLC-DAD

Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/ml)	Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/ml)	LOD/LOQ (mg/ml)
CBC	ND	ND	ND	0.0234/0.0787	CBN	1.7202	0.006	0.06	0.0141/0.0450
CBCA	ND	ND	ND	0.0272/0.0880	CBNA	ND	ND	ND	0.00937/0.0290
CBCV	ND	ND	ND	0.0206/0.0684	CBT	3.1537	0.011	0.11	0.0178/0.0581
CBD	326.2646	1.138	10.66	0.0112/0.0384	Δ ⁸ + Δ ⁹ -THC*	ND	ND	ND	
CBDa	ND	ND	ND	0.0141/0.0468	Δ ⁸ -THC	ND	ND	ND	0.0141/0.0450
CBDV	< LOQ	< LOQ	< LOQ	0.0225/0.0740	Δ ⁹ -THC	ND	ND	ND	0.00843/0.0272
CBDVA	ND	ND	ND	0.00843/0.0272	THCA	ND	ND	ND	0.0159/0.0515
CBG	ND	ND	ND	0.0178/0.0590	THCV	ND	ND	ND	0.0141/0.0450
CBGA	ND	ND	ND	0.00937/0.0309	THCVA	ND	ND	ND	0.0197/0.0637
CBL	ND	ND	ND	0.0131/0.0422	Total THC**	ND	ND	ND	
CBLA	ND	ND	ND	0.00562/0.0197	Total CBD**	326.2646	1.138	10.66	

* Beyond scope of accreditation
Total THC = THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope* *Density tested at a temperature range between 19-24 °C, *Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All Michigan State Compliant samples sampled using SAMPL-SOP-001.

GCP-001: GCP-001: Chemical Residues by GC-MS/MS

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Chlorfenapyr	ND	1	0.0360/0.108	Pass
Cyfluthrin	ND	1	0.0580/0.174	Pass
Cypermethrin	ND	1	0.0450/0.135	Pass
Methyl parathion	ND	0.2	0.0140/0.0420	Pass

LCP-001: LCP-001: Chemical Residues by LC-MS/MS

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Abamectin	ND	0.5	0.00800/0.0250	Pass
Acephate	ND	0.4	0.00200/0.0110	Pass
Acequinocyl	ND	2	0.00400/0.0140	Pass
Acetamiprid	ND	0.2	0.00400/0.0140	Pass
Aldicarb	ND	0.4	0.00500/0.0150	Pass
Azoxystrobin	ND	0.2	0.00500/0.0170	Pass
Bifenazate	ND	0.2	0.00400/0.0130	Pass
Bifenthrin	ND	0.2	0.00600/0.0190	Pass
Boscalid	ND	0.4	0.00800/0.0260	Pass
Carbaryl	ND	0.2	0.00500/0.0160	Pass
Carbofuran	ND	0.2	0.00200/0.0130	Pass
Chlorantraniliprole	ND	0.2	0.00200/0.0120	Pass
Chlorpyrifos	ND	0.2	0.00200/0.0110	Pass
Clofentezine	ND	0.2	0.00400/0.0120	Pass
Daminozide	ND	1	0.0140/0.0470	Pass
Diazinon	ND	0.2	0.00400/0.0130	Pass
Dichlorvos	ND	1	0.00200/0.0110	Pass
Dimethoate	ND	0.2	0.00200/0.0110	Pass
Ethoprophos	ND	0.2	0.00100/0.0110	Pass
Etofenprox	ND	0.4	0.00400/0.0130	Pass
Etoxazole	ND	0.2	0.00600/0.0200	Pass
Fenoxycarb	ND	0.2	0.00300/0.0120	Pass
Fenpyroximate	ND	0.4	0.00200/0.0120	Pass
Fipronil	ND	0.4	0.00500/0.0160	Pass
Fonicamid	ND	1	0.00600/0.0200	Pass
Fludioxonil	ND	0.4	0.00900/0.0290	Pass
Hexythiazox	ND	1	0.00400/0.0120	Pass
Imazalil	ND	0.2	0.00700/0.0230	Pass
Imidacloprid	ND	0.4	0.00600/0.0190	Pass
Kresoxim-methyl	ND	0.4	0.00600/0.0180	Pass

RS-001: RS-001: Residual Solvents by HS-GC-MS

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
1,2-Dichloroethane	ND	5	0.100/0.290	Pass
2,2-Dimethylbutane*	ND	290	0.218/0.653	Pass
2,2-Dimethylpropane	ND		0.109/0.327	N/A
2,3-Dimethylbutane*	ND	290	0.430/1.29	Pass
2-Methylbutane	ND	5000	0.193/0.580	Pass
2-Methylpentane*	ND	290	0.152/0.457	Pass
3-Methylpentane	ND	290	0.128/0.363	Pass
Acetone	ND	5000	14.7/120	Pass
Acetonitrile	ND	410	0.800/12.0	Pass
Benzene	ND	2	0.100/0.310	Pass
Butane	ND	5000		Pass
Butanes all isomers*	ND	5000		Pass
Chloroform	ND	60	0.0900/0.280	Pass
Ethanol	ND		1.03/25.0	N/A
Ethyl acetate	ND	5000	0.330/0.980	Pass

* Beyond scope of accreditation

MIC-004: MIC-004: Targeted Microbial Detection by qPCR

Analyte	Amt (CFU/g)	Pass/Fail
Aspergillus spp.	ND	Pass
Salmonella spp.	ND	Pass

MIC-002: MIC-002: Quantitative Microbial Analysis by Petrifilm Plating

Analyte	Amt (CFU/g)	Pass/Fail
Coliforms	ND	Pass

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
MGK-264	ND	0.2	0.0160/0.0480	Pass
MGK-264 I	ND			N/A
MGK-264 II	ND			N/A

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Malathion	ND	0.2	0.00100/0.0110	Pass
Metalaxyl	ND	0.2	0.00600/0.0210	Pass
Methiocarb	ND	0.2	0.00400/0.0130	Pass
Methomyl	ND	0.4	0.00100/0.0130	Pass
Myclobutanil	ND	0.2	0.00200/0.0120	Pass
Naled	ND	0.5	0.00200/0.0110	Pass
Oxamyl	ND	1	0.00300/0.0120	Pass
Paclobutrazol	ND	0.4	0.00800/0.0270	Pass
Permethrin	ND	0.2		Pass
Permethrin cis	ND		0.00100/0.00400	N/A
Permethrin trans	ND		0.00800/0.0270	N/A
Phosmet	ND	0.2	0.00300/0.0110	Pass
Prallethrin	ND	0.2	0.00400/0.0140	Pass
Propiconazole	ND	0.4	0.00600/0.0200	Pass
Propoxur	ND	0.2	0.00200/0.0130	Pass
Pyrethrins	< LOQ	1		Pass
Pyrethrins Cinerin I	ND		0.00100/0.00400	N/A
Pyrethrins Jasmolin I	< LOQ		0.000/0.00100	N/A
Pyrethrins Pyrethrin I	ND		0.00600/0.0190	N/A
Pyridaben	ND	0.2	0.00300/0.0110	Pass
Spinosad	ND	0.2		Pass
Spinosad A	ND		0.00200/0.00800	N/A
Spinosad D	ND		0.00100/0.00300	N/A
Spiromesifen	ND	0.2	0.00500/0.0160	Pass
Spirotetramat	ND	0.2	0.00700/0.0220	Pass
Spiroxamine	ND	0.4	0.00700/0.0240	Pass
Tebuconazole	ND	0.4	0.00700/0.0240	Pass
Thiacloprid	ND	0.2	0.00500/0.0160	Pass
Thiamethoxam	ND	0.2	0.00300/0.0110	Pass
Trifloxystrobin	ND	0.2	0.00300/0.0120	Pass

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Ethylene oxide	ND	50	1.25/3.75	Pass
Ethyl ether	ND	5000	0.380/1.16	Pass
Heptane	< LOQ	5000	2.06/6.19	Pass
Hexane	ND	290		Pass
Hexanes all isomers*	ND	290		Pass
Isobutane*	ND	5000	0.609/1.83	Pass
Isopropyl alcohol	ND		0.760/20.0	N/A
Methanol	< LOQ	3000	7.16/50.0	Pass
Methylene chloride	ND	600	0.420/1.27	Pass
Pentane	ND	5000		Pass
Pentanes all isomers*	ND	5000		Pass
Propane	ND	5000	1.40/4.19	Pass
Toluene	ND	890	0.430/1.29	Pass
Trichloroethylene	ND	80	0.0800/0.240	Pass
Total xylenes	ND	2170	0.260/0.770	Pass



HM-001: HM-001: Heavy Metals by ICP-MS

Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Amt (µg/g)	Limit (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Arsenic	< LOQ	1.5	0.00170/0.0340	Pass	Lead	ND	0.5	0.00600/0.0170	Pass
Cadmium	0.086	0.5	0.00200/0.00500	Pass	Mercury	ND	3	0.00300/0.0140	Pass
Chromium	ND	2	0.0520/0.156	Pass	Nickel	0.155		0.0160/0.0480	N/A
Copper	0.099		0.00600/0.0190	N/A					

HOMOG-001: HOMOG-001: Homogeneity by HPLC-DAD

Analyte	Amt (%)	Limit (%)	Pass/Fail	Analyte	Amt (%)	Limit (%)	Pass/Fail
CBD RSD	0.440		N/A	THC RSD	0.000	15	Pass

WA-001: WA-001: Water Activity by Dew Point Hygrometer

Analyte	Amt (Aw)	Limit (Aw)	Pass/Fail
Water Activity	0.547	0.85	Pass

Notes

Joe Maricelli Aug 22, 2025	Cannabinoids by HPLC-DAD *CBC, CBCA, CBCV, CBDV,CBDVA,CBGA,CBL, CBLA,CBNA,CBT,THCV,THCVA have not been evaluated by the CRA and are for informational purposes only.
-------------------------------	--

Accreditations



PJLA Accredited LCP-001: LCP-001: Chemical Residues by LC-MS/MS Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorpyrifos, Clofentezine, Daminozide, Diazinon, Dichlorvos, Dimethoate, Ethoprophos, Etofenprox, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Fonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Kresoxim-methyl, Malathion, Metalaxyl, Methiocarb, Methomyl, Myclobutanil, Naled, Oxamyl, Pacllobutrazol, Permethrin, Permethrin cis, Permethrin trans, Phosmet, Prallethrin, Propiconazole, Propoxur, Pyrethrins, Pyrethrins Cinerin I, Pyrethrins Jasmolin I, Pyrethrins Pyrethrin I, Pyridaben, Spinosad, Spinosad A, Spinosad D, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiadiazol, Thiamethoxam, Trifloxystrobin	RS-001: RS-001: Residual Solvents by HS-GC-MS 1,2-Dichloroethane, 2,2-Dimethylpropane, 2-Methylbutane, 3-Methylpentane, Acetone, Acetonitrile, Benzene, Butane, Chloroform, Ethanol, Ethyl acetate, Ethyl ether, Ethylene oxide, Heptane, Hexane, Isopropyl alcohol, Methanol, Methylene chloride, Pentane, Propane, Toluene, Total xylenes, Trichloroethylene POT-001: POT-001: Cannabinoids by HPLC-DAD CBC, CBCA, CBCV, CBD, CBDA, CBDV, CBDVA, CBG, CBGA, CBL, CBLA, CBN, CBNA, CBT, Delta-8-THC, Delta-9-THC, THCA, THCV, THCVA, Total CBD, Total THC GCP-001: GCP-001: Chemical Residues by GC-MS/MS Chlorfenapyr, Cyfluthrin, Cypermethrin, MGK-264, MGK-264 I, MGK-264 II, Methyl parathion MIC-004: MIC-004: Targeted Microbial Detection by qPCR Aspergillus spp., Salmonella spp., Shiga toxin-producing E. coli HM-001: HM-001: Heavy Metals by ICP-MS Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel FFM-001: FFM-001: Foreign Matter by Microscopic Inspection Inorganic Matter, Organic Matter MIC-002: MIC-002: Quantitative Microbial Analysis by Petrifilm Plating Coliforms, Yeast & Mold WA-001: WA-001: Water Activity by Dew Point Hygrometer Water Activity
--	--



[Signature]