

Koi Naturals Hemp Extract CBD Oil Tincture | Peppermint Flavor (500 mg)

Sample ID: 2112CSALA8355.2993

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2276BB1223

Produced: 12/15/2021

Collected: 12/16/2021

Received: 12/16/2021

Completed: 12/20/2021

Client:
Koi CBD
Lic. #

14631 Best Ave

Norwalk, CA 90650



Summary

Pass

611.2004 mg/package Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/ml	mg/ml	mg/ml	mg/package
CBD	0.0164	0.0235	18.2305	546.9161
CBT *	0.0197	0.0915	0.7628	22.8834
CBC	0.02	0.0235	0.6478	19.4334
CBN	0.023	0.0235	0.3684	11.0526
CBG	0.0215	0.0235	0.2011	6.0325
CBDV	0.0191	0.0235	0.1627	4.8824
CBCA *	0.0207	0.0235	ND	ND
CBDa	0.0125	0.0235	ND	ND
CBDVA *	0.0223	0.0235	ND	ND
CBGa	0.0175	0.0235	ND	ND
THCa	0.0173	0.0235	ND	ND
THCV	0.0227	0.0235	ND	ND
THCVA *	0.0228	0.0235	ND	ND
Δ8-THC	0.0206	0.0235	ND	ND
Δ9-THC	0.0194	0.0235	ND	ND

ND
Total THC
546.9161 mg/package
Total CBD

Package = 1 Tincture Bottle, 30.0 milliliters; Density = 0.9382 g/ml; 0.0

mg/package Total THC; 546.9161 mg/package Total CBD;

Date Tested: 12/19/2021

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

* Denotes analytes pending ISO-17025 scope addition

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Eucalyptol	0.006	0.0175	0.0502	0.5023
δ-Limonene	0.005	0.0159	0.0198	0.1982
β-Caryophyllene	0.006	0.0173	<LOQ	<LOQ
Caryophyllene Oxide	0.029	0.0874	ND	ND
β-Pinene	0.005	0.0147	<LOQ	<LOQ
β-Myrcene	0.008	0.024	ND	ND
Isopulegol	0.009	0.0282	ND	ND
γ-Terpinene	0.006	0.0168	ND	ND
Linalool	0.008	0.0228	ND	ND
α-Terpinene	0.005	0.0165	ND	ND
Terpinolene	0.006	0.0168	ND	ND
trans-Nerolidol	0.007	0.0219	ND	ND
δ-3-Carene	0.005	0.016	ND	ND
Ocimene	0.004	0.0109	ND	ND
Camphene	0.005	0.0163	ND	ND
Geraniol	0.007	0.0205	ND	ND
Guaiol	0.011	0.0334	ND	ND
p-Cymene	0.005	0.0162	ND	ND
α-Bisabolol	0.01	0.0295	ND	ND
α-Humulene	0.006	0.0173	ND	ND
α-Pinene	0.006	0.0175	ND	ND
Total			0.0701	0.7005

Date Tested: 12/17/2021

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 12/17/2021
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 ISO / IEC 17025:2017 ACCREDITED
 LABORATORY
 Accreditation No. 73653



 Neyajourabchian
 Laboratory Director
 12/20/2021



 Mikaela Gutierrez
 COA Review
 12/20/2021

Koi Naturals Hemp Extract CBD Oil Tincture | Peppermint Flavor (500 mg)

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Pesticides

Testing method: LCMS & GCMS-SOP 301 and 302

Pass

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.037	0.068	0.3	ND	Pass	Fludioxonil	0.05	0.078	30	ND	Pass
Acephate	0.035	0.078	5	ND	Pass	Hexythiazox	0.041	0.078	2	ND	Pass
Acequinocyl	0.033	0.078	4	ND	Pass	Imazalil *	0.047	0.078	0.047	ND	Pass
Acetamiprid	0.034	0.078	5	ND	Pass	Imidacloprid	0.033	0.078	3	ND	Pass
Aldicarb *	0.032	0.078	0.032	ND	Pass	Kresoxim Methyl	0.033	0.078	1	ND	Pass
Azoxystrobin	0.033	0.078	40	ND	Pass	Malathion	0.05	0.078	5	ND	Pass
Bifenazate	0.069	0.078	5	ND	Pass	Metalaxyl	0.036	0.078	15	ND	Pass
Bifenthrin	0.067	0.078	0.5	ND	Pass	Methiocarb *	0.05	0.078	0.05	ND	Pass
Boscalid	0.045	0.078	10	ND	Pass	Methomyl	0.04	0.078	0.1	ND	Pass
Captan	0.3188	0.625	5	ND	Pass	Methyl Parathion *	0.0387	0.0781	0.0387	ND	Pass
Carbaryl	0.04	0.078	0.5	ND	Pass	Mevinphos *	0.034	0.078	0.034	ND	Pass
Carbofuran *	0.034	0.078	0.034	ND	Pass	Myclobutanil	0.062	0.078	9	ND	Pass
Chlorantraniliprole	0.033	0.078	40	ND	Pass	Naled	0.052	0.078	0.5	ND	Pass
Chlordane *	0.0245	0.0781	0.0245	ND	Pass	Oxamyl	0.033	0.078	0.2	ND	Pass
Chlorfenapyr *	0.0178	0.0781	0.0178	ND	Pass	Paclobutrazol *	0.062	0.078	0.062	ND	Pass
Chlorpyrifos *	0.033	0.078	0.033	ND	Pass	Pentachloronitrobenzene	0.0358	0.0781	0.2	ND	Pass
Clofentezine	0.047	0.078	0.5	ND	Pass	Permethrin	0.05	0.078	20	ND	Pass
Coumaphos *	0.041	0.078	0.041	ND	Pass	Phosmet	0.033	0.078	0.2	ND	Pass
Cyfluthrin	0.148	0.156	1	ND	Pass	Piperonyl Butoxide	0.039	0.078	8	ND	Pass
Cypermethrin	0.079	0.156	1	ND	Pass	Prallethrin	0.041	0.078	0.4	ND	Pass
Daminozide *	0.043	0.078	0.043	ND	Pass	Propiconazole	0.04	0.078	20	ND	Pass
DDVP *	0.037	0.078	0.037	ND	Pass	Propoxur *	0.041	0.078	0.041	ND	Pass
Diazinon	0.031	0.078	0.2	ND	Pass	Pyrethrins	0.188	0.22	1	ND	Pass
Dimethoate *	0.028	0.078	0.028	ND	Pass	Pyridaben	0.059	0.078	3	ND	Pass
Dimethomorph	0.033	0.078	20	ND	Pass	Spinetoram	0.042	0.078	3	ND	Pass
Ethoprophos *	0.029	0.078	0.029	ND	Pass	Spinosad	0.038	0.079	3	ND	Pass
Etofenprox *	0.038	0.078	0.038	ND	Pass	Spiromesifen	0.038	0.078	12	ND	Pass
Etoxazole	0.034	0.078	1.5	ND	Pass	Spirotetramat	0.031	0.078	13	ND	Pass
Fenhexamid	0.072	0.078	10	ND	Pass	Spiroxamine *	0.031	0.078	0.031	ND	Pass
Fenoxycarb *	0.028	0.078	0.028	ND	Pass	Tebuconazole	0.034	0.078	2	ND	Pass
Fenpyroximate	0.025	0.078	2	ND	Pass	Thiacloprid *	0.033	0.078	0.033	ND	Pass
Fipronil *	0.057	0.078	0.057	ND	Pass	Thiamethoxam	0.039	0.078	4.5	ND	Pass
Flonicamid	0.043	0.078	2	ND	Pass	Trifloxystrobin	0.039	0.078	30	ND	Pass

Date Tested: 12/17/2021

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Microbials

Pass

Testing method: PCR-SOP 401

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

Date Tested: 12/20/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	2.0	3.9		ND	Tested
Aflatoxin B2	3.0	3.9		ND	Tested
Aflatoxin G1	2.4	3.9		ND	Tested
Aflatoxin G2	3.1	3.9		ND	Tested
Total Aflatoxins	10.5	15.6	20	ND	Pass
Ochratoxin A	6.4	15.5	20	ND	Pass

Date Tested: 12/17/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.005	0.05	1.5	<LOQ	Pass
Cadmium	0.003	0.05	0.5	ND	Pass
Lead	0.01	0.05	0.5	<LOQ	Pass
Mercury	0.002	0.05	3	<LOQ	Pass

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Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.08	1.0	1	ND	Pass
Acetone	9.19	50.0	5000	ND	Pass
Acetonitrile	17.49	58.35	410	ND	Pass
Benzene	0.09	1.0	1	ND	Pass
Butane	35.32	117.8	5000	ND	Pass
Chloroform	0.21	1.0	1	ND	Pass
Ethanol	14.96	50.0	5000	<LOQ	Pass
Ethyl acetate	12.8	50.0	5000	ND	Pass
Ethylene Oxide	0.3	1.0	1	ND	Pass
Ethyl ether	16.0	53.36	5000	ND	Pass
Heptane	42.11	140.48	5000	ND	Pass
Isopropyl alcohol	19.79	66.02	5000	ND	Pass
Methanol	149.0	497.01	3000	ND	Pass
Methylene chloride	0.11	1.0	1	ND	Pass
Hexane	33.99	113.37	290	ND	Pass
Pentane	28.08	93.67	5000	ND	Pass
Propane	42.44	141.57	5000	ND	Pass
Toluene	23.99	80.03	890	ND	Pass
Trichloroethylene	0.06	1.0	1	ND	Pass
Total xylenes	65.49	218.45	2170	ND	Pass

Date Tested: 12/17/2021

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Koi Naturals Hemp Extract CBD Oil Tincture | Peppermint Flavor (1000 mg)

Sample ID: 2112CSALA8205.2586

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2265BB1223

Produced: 12/06/2021

Collected: 12/07/2021

Received: 12/07/2021

Completed: 12/10/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650



Summary

Pass

1203.3069 mg/package Total Cannabinoids	Pass Pesticides	Pass Residual Solvents
Pass Microbials	Pass Mycotoxins	Pass Heavy Metals

Cannabinoids

Pass

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/ml	mg/ml	mg/ml	mg/package
CBD	0.0165	0.0235	36.0339	1081.0163
CBC	0.02	0.0235	1.2480	37.4412
CBT *	0.0198	0.0918	1.2006	36.0193
CBN	0.0231	0.0235	0.7417	22.2514
CBG	0.0216	0.0235	0.5246	15.7367
CBDV	0.0192	0.0235	0.3614	10.8420
CBCA *	0.0208	0.0235	ND	ND
CBDa	0.0125	0.0235	ND	ND
CBDVA *	0.0224	0.0235	ND	ND
CBGa	0.0176	0.0235	ND	ND
THCa	0.0173	0.0235	ND	ND
THCV	0.0228	0.0235	ND	ND
THCVA *	0.0229	0.0235	ND	ND
Δ8-THC	0.0207	0.0235	ND	ND
Δ9-THC	0.0195	0.0235	ND	ND

ND

Total THC

1081.0163 mg/package

Total CBD

Package = 1 Jar, 30.0 milliliters; Density = 0.9411 g/ml; 0.0 mg/package Total THC; 1081.0163 mg/package Total CBD;

Date Tested: 12/09/2021

Total THC = THCa * 0.877 + d9-THC

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

* Denotes analytes pending ISO-17025 scope addition

Terpenes

Complete

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
Eucalyptol	0.006	0.0175	0.0560	0.5604
δ-Limonene	0.005	0.0159	0.0212	0.2118
Caryophyllene Oxide	0.029	0.0874	ND	ND
β-Caryophyllene	0.006	0.0173	<LOQ	<LOQ
Isopulegol	0.009	0.0282	<LOQ	<LOQ
Guaiol	0.011	0.0334	<LOQ	<LOQ
α-Bisabolol	0.01	0.0295	<LOQ	<LOQ
β-Myrcene	0.008	0.024	<LOQ	<LOQ
Geraniol	0.007	0.0205	<LOQ	<LOQ
Linalool	0.008	0.0228	ND	ND
β-Pinene	0.005	0.0147	<LOQ	<LOQ
α-Pinene	0.006	0.0175	ND	ND
α-Humulene	0.006	0.0173	ND	ND
Terpinolene	0.006	0.0168	ND	ND
Camphene	0.005	0.0163	ND	ND
Ocimene	0.004	0.0109	ND	ND
p-Cymene	0.005	0.0162	ND	ND
trans-Nerolidol	0.007	0.0219	ND	ND
α-Terpinene	0.005	0.0165	ND	ND
γ-Terpinene	0.006	0.0168	ND	ND
δ-3-Carene	0.005	0.016	ND	ND
Total			0.0772	0.7722

Date Tested: 12/07/2021

NT Moisture Moisture Analyzer SOP-103	NT Water Activity Water Activity Meter SOP-102	Pass Foreign Matter Visual Inspection SOP-600 Date Tested: 12/07/2021
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Neyajourabian

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Laboratory Director
12/10/2021

Mikaela Gutierrez

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COA Review
12/10/2021

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Pesticides

Testing method: LCMS & GCMS-SOP 301 and 302

Pass

Analyte	LOD	LOQ	Limit	Results	Status	Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.037	0.068	0.3	ND	Pass	Fludioxonil	0.05	0.078	30	ND	Pass
Acephate	0.035	0.078	5	ND	Pass	Hexythiazox	0.041	0.078	2	ND	Pass
Acequinocyl	0.033	0.078	4	ND	Pass	Imazalil *	0.047	0.078	0.047	ND	Pass
Acetamiprid	0.034	0.078	5	ND	Pass	Imidacloprid	0.033	0.078	3	ND	Pass
Aldicarb *	0.032	0.078	0.032	ND	Pass	Kresoxim Methyl	0.033	0.078	1	ND	Pass
Azoxystrobin	0.033	0.078	40	ND	Pass	Malathion	0.05	0.078	5	ND	Pass
Bifenazate	0.069	0.078	5	ND	Pass	Metalaxyl	0.036	0.078	15	ND	Pass
Bifenthrin	0.067	0.078	0.5	ND	Pass	Methiocarb *	0.05	0.078	0.05	ND	Pass
Boscalid	0.045	0.078	10	ND	Pass	Methomyl	0.04	0.078	0.1	ND	Pass
Captan	0.3188	0.625	5	ND	Pass	Methyl Parathion *	0.0387	0.0781	0.0387	ND	Pass
Carbaryl	0.04	0.078	0.5	ND	Pass	Mevinphos *	0.034	0.078	0.034	ND	Pass
Carbofuran *	0.034	0.078	0.034	ND	Pass	Myclobutanil	0.062	0.078	9	ND	Pass
Chlorantraniliprole	0.033	0.078	40	ND	Pass	Naled	0.052	0.078	0.5	ND	Pass
Chlordane *	0.0245	0.0781	0.0245	ND	Pass	Oxamyl	0.033	0.078	0.2	ND	Pass
Chlorfenapyr *	0.0178	0.0781	0.0178	ND	Pass	Paclobutrazol *	0.062	0.078	0.062	ND	Pass
Chlorpyrifos *	0.033	0.078	0.033	ND	Pass	Pentachloronitrobenzene	0.0358	0.0781	0.2	ND	Pass
Clofentezine	0.047	0.078	0.5	ND	Pass	Permethrin	0.05	0.078	20	ND	Pass
Coumaphos *	0.041	0.078	0.041	ND	Pass	Phosmet	0.033	0.078	0.2	ND	Pass
Cyfluthrin	0.148	0.156	1	ND	Pass	Piperonyl Butoxide	0.039	0.078	8	ND	Pass
Cypermethrin	0.079	0.156	1	ND	Pass	Prallethrin	0.041	0.078	0.4	ND	Pass
Daminozide *	0.043	0.078	0.043	ND	Pass	Propiconazole	0.04	0.078	20	ND	Pass
DDVP *	0.037	0.078	0.037	ND	Pass	Propoxur *	0.041	0.078	0.041	ND	Pass
Diazinon	0.031	0.078	0.2	ND	Pass	Pyrethrins	0.188	0.22	1	ND	Pass
Dimethoate *	0.028	0.078	0.028	ND	Pass	Pyridaben	0.059	0.078	3	ND	Pass
Dimethomorph	0.033	0.078	20	ND	Pass	Spinetoram	0.042	0.078	3	ND	Pass
Ethoprophos *	0.029	0.078	0.029	ND	Pass	Spinosad	0.038	0.079	3	ND	Pass
Etofenprox *	0.038	0.078	0.038	ND	Pass	Spiromesifen	0.038	0.078	12	ND	Pass
Etoxazole	0.034	0.078	1.5	ND	Pass	Spirotetramat	0.031	0.078	13	ND	Pass
Fenhexamid	0.072	0.078	10	ND	Pass	Spiroxamine *	0.031	0.078	0.031	ND	Pass
Fenoxycarb *	0.028	0.078	0.028	ND	Pass	Tebuconazole	0.034	0.078	2	ND	Pass
Fenpyroximate	0.025	0.078	2	ND	Pass	Thiacloprid *	0.033	0.078	0.033	ND	Pass
Fipronil *	0.057	0.078	0.057	ND	Pass	Thiamethoxam	0.039	0.078	4.5	ND	Pass
Flonicamid	0.043	0.078	2	ND	Pass	Trifloxystrobin	0.039	0.078	30	ND	Pass

Date Tested: 12/08/2021

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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Microbials

Pass

Testing method: PCR-SOP 401

Analyte	Result	Status
Salmonella	Not Detected	Pass
Shiga toxin-producing E. Coli	Not Detected	Pass

Date Tested: 12/09/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Mycotoxins

Pass

Testing method: LCMS-SOP 301

Analyte	LOD	LOQ	Limit	Results	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Aflatoxin B1	2.0	3.9		ND	Tested
Aflatoxin B2	3.0	3.9		ND	Tested
Aflatoxin G1	2.4	3.9		ND	Tested
Aflatoxin G2	3.1	3.9		ND	Tested
Total Aflatoxins	10.5	15.6	20	ND	Pass
Ochratoxin A	6.4	15.5	20	ND	Pass

Date Tested: 12/08/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Heavy Metals

Pass

Testing method: ICPMS-SOP 502

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.005	0.05	1.5	ND	Pass
Cadmium	0.003	0.05	0.5	ND	Pass
Lead	0.01	0.05	0.5	ND	Pass
Mercury	0.002	0.05	3	ND	Pass

Date Tested: 12/08/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 LABORATORY
 Accreditation No. 73653

 Neya Jourabchian
 Laboratory Director
 12/10/2021

 Mikaela Gutierrez
 COA Review
 12/10/2021

Koi Naturals Hemp Extract CBD Oil Tincture | Peppermint Flavor (1000 mg)

Sample ID: 2112CSALA8205.2586

Matrix: Concentrates & Extracts

Type: Tincture

Sample Size: 1 units

Batch Size: 1600 units

Batch#: 2265BB1223

Produced: 12/06/2021

Collected: 12/07/2021

Received: 12/07/2021

Completed: 12/10/2021

Client

Koi CBD

Lic. #

14631 Best Ave

Norwalk, CA 90650

Residual Solvents

Pass

Testing method: HSGCMS-SOP 202

Analyte	LOD	LOQ	Limit	Results	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.08	1.0	1	ND	Pass
Acetone	9.19	50.0	5000	ND	Pass
Acetonitrile	17.49	58.35	410	ND	Pass
Benzene	0.09	1.0	1	ND	Pass
Butane	35.32	117.8	5000	ND	Pass
Chloroform	0.21	1.0	1	ND	Pass
Ethanol	14.96	50.0	5000	ND	Pass
Ethyl acetate	12.8	50.0	5000	ND	Pass
Ethylene Oxide	0.3	1.0	1	ND	Pass
Ethyl ether	16.0	53.36	5000	ND	Pass
Heptane	42.11	140.48	5000	ND	Pass
Isopropyl alcohol	19.79	66.02	5000	ND	Pass
Methanol	149.0	497.01	3000	ND	Pass
Methylene chloride	0.11	1.0	1	ND	Pass
Hexane	33.99	113.37	290	ND	Pass
Pentane	28.08	93.67	5000	ND	Pass
Propane	42.44	141.57	5000	ND	Pass
Toluene	23.99	80.03	890	ND	Pass
Trichloroethylene	0.06	1.0	1	ND	Pass
Total xylenes	65.49	218.45	2170	ND	Pass

Date Tested: 12/07/2021

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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