



Product Analysis
Batch No. 20034

New Hope Spectrum X 1000 mg CBD Oil - Natural Flavor

Product Description:	2 ounces (60 mL) of 16.7 mg/mL CBD Oil
Formulation Date:	5/12/2020
Expiration Date:	5/2022
Country of Origin	United States
Storage:	Store in a cool, dry place away from light. Do not use if safety seal is broken.
Packaging:	1 ounce glass amber bottle.
Disclaimers:	Keep out of reach of children. No to be used during pregnancy or lactation. Please consult a physician before taking if you have a medical condition or are currently taking other medications.
Safety Warning:	This product has not been evaluated by the United States Food and Drug Administration (FDA) and is not intended to diagnose, treat, cure or prevent any disease. This product contains <0.3% delta 9-THC, compliant with the Federal Farm Bill.

Batch Information

Batch Size:	24 L
Quantity Produced:	404

Formulation

Ingredient	Manufacturer	Lot No.
MCT Oil:	Kraft Chemical Co.	BTB1903033
Full Spectrum CBD Oil	PHARM Xtracts	MH-FS-20002

Test Results Summary

Cannabinoids

Cannabinoid	30 mL Total (mg)	Weight Percentage (%)	Concentration (mg/g)
Total CBD	1065.0	1.91%	17.75
Total THC	36.78	0.08%	0.61

Other Testing

Residual Solvents:	None Detected	Salmonella:	None Detected
Heavy Metals:	None Detected	Escherichia coli:	None Detected
Pesticides:	None Detected	Aspergillus:	None Detected
Mycotoxins:	None Detected		



Certificate of Analysis

Customer:
Pharm CBD
2580 Highway 42 West
Bedford, KY 40006

Sample ID: **200518005**
Order Number: **CB200518001**
Sample Name: **20034-1**

Collected Date:
Received Date: **5/19/2020**
COA Released: **6/4/2020**

External Sample ID:
Batch Number: **20034**
Product Type: **Concentrate**
Sample Type: **Concentrate**

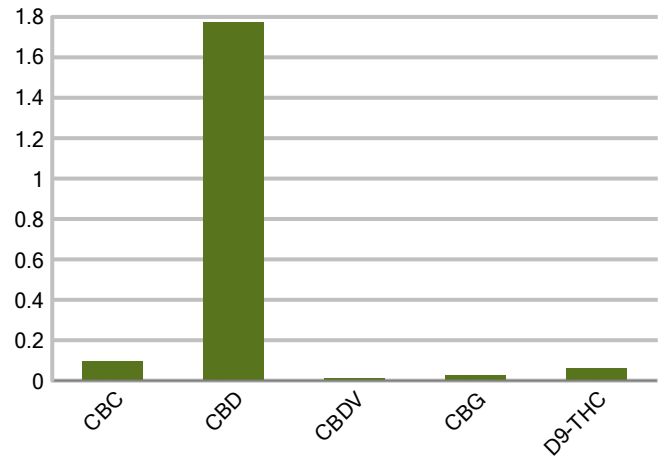
Comments:

CANNABINOID PROFILE

Analyte	LOQ (%)	% weight	(mg/g)
CBC	0.01	0.098	0.976
CBD	0.01	1.775	17.75
CBDa	0.01	ND	ND
CBDV	0.01	0.014	0.144
CBG	0.01	0.025	0.251
CBGa	0.01	ND	ND
CBN	0.01	ND	ND
d8-THC	0.01	ND	ND
d9-THC	0.01	0.061	0.613
THCa	0.01	ND	ND
Total Cannabinoids		1.973	19.73
Total Potential THC		0.061	0.613
Total Potential CBD		1.775	17.75
Total Potential CBG		0.025	0.251



Cannabinoids (% weight)



Ratio of Total Potential CBD to Total Potential THC 29.10 : 1

Ratio of Total Potential CBG to Total Potential THC 0.41 : 1

**Total Cannabinoids refers to the sum of all cannabinoids detected.*

**Total Potential CBD = (0.877 x CBDa) + CBD. *Total Potential THC = (0.877 x THCa) + THC. *Total Potential CBG = (0.877 x CBGa) + CBG.*

**Total Potential THC/CBD are calculated to take into account the loss of an acid group during decarboxylation.*

Authorized Signature

Laboratory Manager

Jamie Hobgood

06/04/2020 11:30 AM

DATE

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Sample ID: 200518005
Sample Name: 20034-1
Sample Type: Concentrate

Certificate of Analysis

Customer

Pharm CBD
2580 Highway 42 West
Bedford, KY 40006



Overall Batch Results

PASS

Pesticide PASS	Moisture Content PASS
Potency PASS	Water Activity PASS
Mycotoxins PASS	Heavy Metals PASS
Microbial Screen PASS	Residual Solvents PASS
Terpenoids PASS	

Sample Name: 20034-1

Sample ID: 200518005

Product Type: Concentrate

Sample Type: Concentrate

Collected Date:

Received Date: 05/19/2020

Batch Number:

Batch Size:

Sample Size:

COA released:

Potency (mg/g)

Date Tested: 05/20/2020

Method:

Instrument:

0.061 % Total THC	1.775 % Total CBD	1.973 % Total Cannabinoids	19.73 mg/g Total Cannabinoids
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Analyte	Result	Units	LOQ	Result	Units
CBC (Cannabichromene)	0.098	%	0.010	0.976	mg/g
CBD (Cannabidiol)	1.775	%	0.010	17.75	mg/g
CBDa (Cannabidiolic Acid)	ND	%	0.010	ND	mg/g
CBDV (Cannabidivarin)	0.014	%	0.010	0.144	mg/g
CBG (Cannabigerol)	0.025	%	0.010	0.251	mg/g
CBGa (Cannabigerolic Acid)	ND	%	0.010	ND	mg/g
CBN (Cannabinol)	ND	%	0.010	ND	mg/g
D8-THC (D8-Tetrahydrocannabinol)	ND	%	0.010	ND	mg/g
D9-THC (D9-Tetrahydrocannabinol)	0.061	%	0.010	0.613	mg/g
THCa (Tetrahydrocannabinolic Acid)	ND	%	0.010	ND	mg/g

Terpenoids

Date Tested: 05/21/2020

Method:

Instrument:

Analyte	Result	Unit	LOQ	Result	Unit
alpha-Bisabolol	<LOQ	mg/g	0.100	<LOQ	%
alpha-humulene	<LOQ	mg/g	0.100	<LOQ	%
alpha-pinene	<LOQ	mg/g	0.100	<LOQ	%
alpha-terpinene	<LOQ	mg/g	0.100	<LOQ	%
beta-caryophyllene	0.164	mg/g	0.100	0.0164	%
Beta-myrcene	<LOQ	mg/g	0.100	<LOQ	%
Beta-pinene	<LOQ	mg/g	0.100	<LOQ	%
cis-Nerolidol	<LOQ	mg/g	0.100	<LOQ	%
Camphene	<LOQ	mg/g	0.100	<LOQ	%
d-Limonene	<LOQ	mg/g	0.100	<LOQ	%
delta-3-Carene	<LOQ	mg/g	0.100	<LOQ	%
Eucalyptol	<LOQ	mg/g	0.100	<LOQ	%
gamma-Terpinene	<LOQ	mg/g	0.100	<LOQ	%
Geraniol	<LOQ	mg/g	0.100	<LOQ	%
Guaiol	<LOQ	mg/g	0.100	<LOQ	%
Isopulegol	<LOQ	mg/g	0.100	<LOQ	%
Linalool	<LOQ	mg/g	0.100	<LOQ	%
Ocimene (mixture of isomers)	<LOQ	mg/g	0.100	<LOQ	%
p-Isopropyltoluene (p-Cymene)	<LOQ	mg/g	0.100	<LOQ	%
trans-beta-Ocimene	<LOQ	mg/g	0.100	<LOQ	%
trans-Nerolidol	<LOQ	mg/g	0.100	<LOQ	%
Terpinolene	<LOQ	mg/g	0.100	<LOQ	%

Foreign Material

Result Note

Date Tested: 05/19/2020

Absence

Water Activity

Result Units

Date Tested: 05/26/2020

0.358 Aw 0.030 Pass

Pesticides

Date Tested: 05/19/2020

Method:

Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Carbofuran	ND	ppm	0.010	Pass	Chlorantraniliprole	ND	ppm	0.010	Pass
Acephate	ND	ppm	0.010	Pass	Acetamiprid	ND	ppm	0.010	Pass
Aldicarb	ND	ppm	0.010	Pass	Azoxystrobin	ND	ppm	0.010	Pass
Bifenazate	ND	ppm	0.010	Pass	Bifenthrin	ND	ppm	0.010	Pass
Carbaryl	ND	ppm	0.010	Pass	Malathion	ND	ppm	0.010	Pass
Metalaxyl	ND	ppm	0.010	Pass	Methiocarb	ND	ppm	0.010	Pass
Methomyl	ND	ppm	0.010	Pass	Myclobutanil	ND	ppm	0.010	Pass
Naled	ND	ppm	0.010	Pass	Chlorpyrifos	ND	ppm	0.010	Pass
Clofentezine	ND	ppm	0.010	Pass	Daminozide	ND	ppm	0.010	Pass
Diazinon	ND	ppm	0.010	Pass	Dichlorvos	ND	ppm	0.010	Pass
Dimethoate	ND	ppm	0.010	Pass	Etofenprox	ND	ppm	0.010	Pass
Etozazole	ND	ppm	0.010	Pass	Fenoxycarb	ND	ppm	0.010	Pass

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Sample ID: 200518005
Sample Name: 20034-1
Sample Type: Concentrate

Certificate of Analysis

Pesticides								
Date Tested: 05/19/2020		Method:			Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Fenpyroximate	ND	ppm	0.010	Pass	Fonicamid	ND	ppm	0.010	Pass
Fludioxonil	ND	ppm	0.010	Pass	Hexythiazox	ND	ppm	0.010	Pass
Imazalil	ND	ppm	0.010	Pass	Imidacloprid	ND	ppm	0.010	Pass
Oxamyl	ND	ppm	0.010	Pass	Paclobutrazol	ND	ppm	0.010	Pass
Phosmet	ND	ppm	0.010	Pass	Prallethrin	ND	ppm	0.010	Pass
Propiconazole	ND	ppm	0.010	Pass	Propoxur	ND	ppm	0.010	Pass
Pyrethrin I	ND	ppm	0.010	Pass	Pyridaben	ND	ppm	0.010	Pass
Spiromesifen	ND	ppm	0.010	Pass	Spirotetramat	ND	ppm	0.010	Pass
Tebuconazole	ND	ppm	0.010	Pass	Thiacloprid	ND	ppm	0.010	Pass
Thiamethoxam	ND	ppm	0.010	Pass	Trifloxystrobin	ND	ppm	0.010	Pass
Ethoprophos	ND	ppm	0.010	Pass	Kresoxym-methyl	ND	ppm	0.010	Pass
Permethrins	ND	ppm	0.010	Pass	Piperonyl Butoxide	ND	ppm	0.010	Pass
Spinosyn A	ND	ppm	0.010	Pass	Spiroxamine-1	ND	ppm	0.010	Pass
AbamectinB1a	ND	ppm	0.010	Pass					

Moisture Content								
Date Tested: 05/26/2020		Method:			Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Percent Moisture	5	%	0.010	Pass					

Mycotoxins								
Date Tested: 05/19/2020		Method:			Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Ochratoxin A	ND	ppm	0.010	Pass	Aflatoxin B1	ND	ppm	0.010	Pass
Aflatoxin G2	ND	ppm	0.010	Pass	Aflatoxin B2	ND	ppm	0.010	Pass
Aflatoxin G1	ND	ppm	0.010	Pass					

Metals								
Date Tested: 05/20/2020		Method:			Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Arsenic	<LOQ	ppm	0.500	Pass	Cadmium	<LOQ	ppm	0.500	Pass
Lead	<LOQ	ppm	0.500	Pass	Mercury	<LOQ	ppm	3.000	Pass

Microbial								
Date Tested: 05/26/2020		Method:			Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
STEC (E. coli)	Negative			Pass	Salmonella	Negative			Pass
Listeria spp.	Negative			Pass	L. monocytogenes	Negative			Pass
Yeast/Mold	0	CFUs		Pass					

Residual Solvent								
Date Tested: 05/21/2020		Method:			Instrument:			

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
1-4 Dioxane	<LOQ	ppm	29	Pass	2-Butanol	<LOQ	ppm	175	Pass
2-Ethoxyethanol	<LOQ	ppm	24	Pass	2-Methylpentane	<LOQ	ppm	87	Pass
3-Methylpentane	<LOQ	ppm	87	Pass	2-Propanol	<LOQ	ppm	350	Pass
Cyclohexane	<LOQ	ppm	146	Pass	Ether	<LOQ	ppm	350	Pass
Ethylbenzene	<LOQ	ppm	81	Pass	Acetone	<LOQ	ppm	350	Pass

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Sample ID: 200518005
Sample Name: 20034-1
Sample Type: Concentrate

Certificate of Analysis

Residual Solvent

Date Tested: 05/21/2020 Method: Instrument:

Analyte	Result	Units	LOQ	Result	Analyte	Result	Units	LOQ	Result
Isopropyl Acetate	<LOQ	ppm	175	Pass	Methylbutane	<LOQ	ppm	350	Pass
n-Heptane	<LOQ	ppm	350	Pass	n-Hexane	<LOQ	ppm	87	Pass
n-Pentane	<LOQ	ppm	350	Pass	Tetrahydrofuran	<LOQ	ppm	54	Pass
Acetonitrile	<LOQ	ppm	123	Pass	Ethanol	<LOQ	ppm	350	Pass
Ethyl acetate	<LOQ	ppm	175	Pass	o-Xylene	<LOQ	ppm	81	Pass
m+p-Xylene	<LOQ	ppm	163	Pass	Methanol	<LOQ	ppm	250	Pass
Methylene Chloride	<LOQ	ppm	90	Pass	Toluene	<LOQ	ppm	67	Pass

Authorized Signature


Laboratory Manager

Jamie Hobgood

06/04/2020 11:30 AM

Date Time

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