



# Certificate of Analysis

Sample provided to the laboratory by the client and tested as received.

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1 of 4

Roots of Life by Hemp Brothers

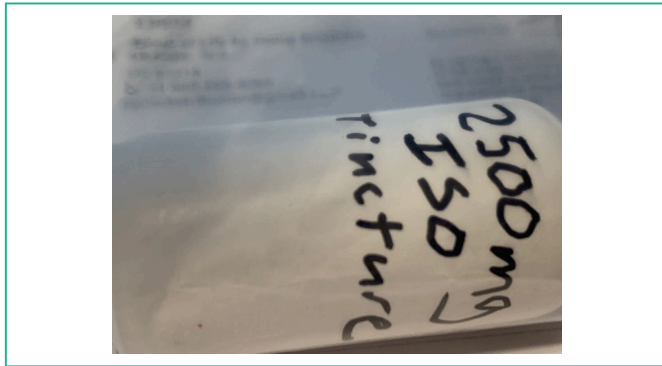
Sample: 1908CH0165.0636

OR 97214  
ppntdistribution@gmail.com  
(503) 206-4060  
Lic. #

Strain: None  
Batch#: ; Batch Size: g  
Sample Received: 08/09/2019; Report Created: 08/15/2019; Expires: 08/15/2020  
Harvest/Production Date:  
Sampling: Random; Environment: Room Temp

2500ml Tincture Isolate

Ingestible, Tincture  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



### Analyte

THCa	
Δ9-THC	
Δ8-THC	
THCVa	
THCV	
CBDa	
CBD	
CBDVa	
CBDV	
CBN	
CBGa	
CBG	
CBCa	
CBC	
CBLa	

## Cannabinoids

377 HPLC4 20190815-1  
07/20/2019 | METRC THC RPD Status: Not Tested

1 Serving = , 1g  
30 servings/container, <LOQ

Complete

<LOQ

Δ9-THC/serving

92.940 mg/serving

Total CBD

0.000 mg/container

Δ9-THC/container

2788.35mg of Total  
CBD per container

Total CBD

Analyte	LOQ	Mass	Mass	Mass
	mg/g	mg/serving	mg/g	%
THCa	0.200	<LOQ	<LOQ	<LOQ
Δ9-THC	0.200	<LOQ	<LOQ	<LOQ
Δ8-THC	1.000	<LOQ	<LOQ	<LOQ
THCVa	1.000	<LOQ	<LOQ	<LOQ
THCV	0.200	<LOQ	<LOQ	<LOQ
CBDa	0.200	<LOQ	<LOQ	<LOQ
CBD	0.200	92.940	92.940	9.2940
CBDVa	1.000	<LOQ	<LOQ	<LOQ
CBDV	0.200	0.240	0.240	0.0240
CBN	0.200	<LOQ	<LOQ	<LOQ
CBGa	0.200	<LOQ	<LOQ	<LOQ
CBG	0.200	<LOQ	<LOQ	<LOQ
CBCa	1.000	<LOQ	<LOQ	<LOQ
CBC	0.200	<LOQ	<LOQ	<LOQ
CBLa	1.000	<LOQ	<LOQ	<LOQ
<b>Total</b>		<b>93.180</b>	<b>93.180</b>	<b>9.3180</b>

Total Cannabinoids Analyzed: 93.180 mg/serving

Method: CH SOP 400  
\*Total THC = THCa \* 0.877 + d9-THC. \*\*Total CBD = CBDa \* 0.877 + CBD. LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected



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Douglas Duncan  
Laboratory Director

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Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
377 HPLC4 20190815-1	PMB08141901T	Cannabinoids	Blank

### QC Notes

None

Compounds	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0.002	<LOQ	-
Δ9-THC	0.002	<LOQ	-
CBDa	0.002	<LOQ	-
CBD	0.002	<LOQ	-



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Harvest/Production Date:  
Sampling: Random; Environment: Room Temp

2500ml Tincture Isolate

Ingestible, Tincture  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
377 HPLC4 20190815-1	PLCS08141901T	Cannabinoids	Lab Control Sample

QC Notes  
None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	3.23	3.93	82.19	70 - 130	-
Δ9-THC	2	2.4	83.33	70 - 130	-
CBDa	2.25	2.55	88.24	70 - 130	-
CBD	3.01	3.36	89.58	57 - 143	-



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2500ml Tincture Isolate

Ingestible, Tincture  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
377 HPLC4 20190815-1	PMS08141901T	Cannabinoids	Spike

QC Notes  
None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.02	<LOQ	<LOQ	86	70 - 130	-
Δ9-THC	0.02	6.84	<20	11	70 - 130	Below Limit Range
CBDa	0.02	<LOQ	<LOQ	79	70 - 130	-
CBD	0.02	7.14	<20	28	70 - 130	Below Limit Range



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