



**CANNABIS OIL  
FINISHED PRODUCT SPECIFICATION  
CERTIFICATE OF ANALYSIS**

<b>Prepared by: Daniel Lantela</b>	<b>Date: April 19, 2017</b>
<b>Revision No: REV2</b>	<b>Lab Samples: ALBS 548/549</b>

<b>Product Name: Super Kush Cannabis Oil</b>	<b>Lot Number: I040</b>
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<b>Date Results Received: June 14, 2017</b>	<b>Total Bottles in Lot: 30ml - 136 60ml - 92</b>
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Sample 1: 60ml Bottle #59 – ALBS 549

Sample 2: 30ml Bottle #39 – ALBS 548

Sample 3: MB Labs W133872 – 30ml Bottle #109

**Results Analyzed by: Daniel Lantela**

**Storage Conditions:** Store in a cool, dry place away from direct sunlight.

**Upon Completion of the Results and Analyst sections of this Product Specification and upon release of Quality Control and Quality Assurance, it is considered to be a completed Certificate of Analysis**

### Visual Inspection

Test Description	Test Method	Parameters	Results
Foreign Matter	Anandia Labs <sup>6</sup>	<2%	0%
Physical Appearance	Visual – In House	Uniform appearance	Yes

### Chemical and Microbial Contaminants

#### MICROBIAL CONTAMINANTS (EP Required)

Test Description	Test Method	Parameters (EP 5.1.8-B)	Results (CFU/g)
Total Aerobic Microbial Count	Anandia Labs <sup>7</sup>	10 <sup>4</sup> cfu/g < 50 000 cfu/g	Sample 1: <1000 Sample 2: <1000
Yeasts and Molds	Anandia Labs <sup>7</sup>	10 <sup>2</sup> cfu/g < 500 cfu/g	Sample 1: <100 Sample 2: <100
BTGN Bacteria	Anandia Labs <sup>7</sup>	10 <sup>2</sup> cfu/g <100 cfu/g	Sample 1: <10 Sample 2: <10
<i>E. coli</i>	Anandia Labs <sup>7</sup>	Absent	Sample 1: Absent Sample 2: Absent
<i>Salmonella</i> spp.	Anandia Labs <sup>7</sup>	Absent	Sample 1: Absent



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**CHEMICAL CONTAMINANTS**

Test Description	Method	Parameters	Results
Aflatoxin B1	Anandia Labs <sup>8</sup>	< 2 ppb	Sample 1: ND
Ochratoxin A	MB labs	<2 ppb	Sample 3: ND
Total Aflatoxins	Anandia Labs <sup>8</sup>	< 4 ppb	Sample 1: ND

**ELEMENTAL IMPURITIES**

Test Description	Method	Parameters (below)	Results
Lead	Anandia Labs <sup>9</sup>	<5.0 ppm (EP)	Sample 1: <0.040 ppm
Cadmium	Anandia Labs <sup>9</sup>	<1 ppm (EP)	Sample 1: <0.020 ppm
Total Mercury	Anandia Labs <sup>9</sup>	< 100 ppb (E.P.)	Sample 1: <0.020 ppm
Arsenic	Anandia Labs <sup>9</sup>	< 500 ppb (NHPD)	Sample 1: <0.050 ppm
Total Ash	MB Labs	Not set	Sample 3: 0.3295 %

**PESTICIDES**

Test Description	Method	Parameters (below)	Results
Detection of Pesticides	Anandia Labs <sup>11</sup>	None Detected	None Detected

**Constituents**

**POTENCY:**

Test Description	Test -Method	Label Claim* (mg/ml)	Results: % (measured) mg/ml (calculated)
Tetrahydrocannabinol (Δ-9 THC)	Anandia Labs <sup>10</sup>	3.02% 28.1 mg/ml	Sample 1: 2.93% Sample 1: 27.2 mg/ml Sample 2: 3.12% Sample 2: 29.0 mg/ml
Tetrahydrocannabinol Acid (Δ-9 THC-A)	Anandia Labs <sup>10</sup>	N/A	Sample 1: 0.01% Sample 2: 0.03%
Total THC + THC-A	Calculated	3.04% 28.3 mg/ml	Sample 1: 2.94% Sample 1: 27.3 mg/ml Sample 2: 3.15% Sample 2: 29.3mg/ml
Cannabidiol (CBD)	Anandia Labs <sup>10</sup>	0.01 % 0.09mg/ml	Sample 1: 0.01 % Sample 1: 0.09 mg/ml Sample 2: 0.01 % Sample 2: 0.09 mg/ml



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Cannabidiol Acid (CBDA)	Anandia Labs <sup>10</sup>	N/A	Sample 1: 0.01 Sample 2: 0.03
Total CBD + CBDA	Calculated	0.03 % 0.3 mg/ml	Sample 1: 0.02 % Sample 1: 0.2 mg/ml Sample 2: 0.04 % Sample 2: 0.3 mg/ml
Cannabigerol (CBG)	Anandia Labs <sup>10</sup>	N/A	Average: 0.08 %
Cannabigerol Acid (CBGA)	Anandia Labs <sup>10</sup>	N/A	Average: 0.01 %
Total CBG + CBG-A	Calculated	N/A	Average: 0.10 %
Cannabichromene (CBC)	Anandia Labs <sup>10</sup>	N/A	Average: 0.06 %
Cannabichromene Acid (CBCA)	Anandia Labs <sup>10</sup>	N/A	Average: 0.003 %
Total CBC + CBCA	Calculated	N/A	Average: 0.06 %
Tetrahydrocannabivarin (THCV)	Anandia Labs <sup>10</sup>	N/A	Average: 0.00 %
Tetrahydrocannabivarin Acid (THCVA)	Anandia Labs <sup>10</sup>	N/A	Average: 0.02 %
Total THCV + THCVA	Calculated	N/A	Average: 0.02 %
CBDVA	Anandia Labs <sup>10</sup>	N/A	Average: 0.00 %
CBDV	Anandia Labs <sup>10</sup>	N/A	Average: 0.00 %
CBDVA+CBDV	Calculated	N/A	Average: 0.00 %
Cannabinol (CBN)	Anandia Labs <sup>10</sup>	N/A	Average: 0.01 %
Total Terpenes	Anandia Labs <sup>12</sup>	N/A	Average: 0.42 %
<b>The Equivalency Factor</b>			
<b>Total Cannabinoid Concentration (mg/ml)</b>	<b>28.6 mg/ml</b>	<b>The Equivalency Factor (ml Oil = 1 gram dried marijuana, based on 200mg cannabinoid/gram +/- 20%)</b>	<b>8 ml = 1 gram</b>

**CANNABINOID CONTENT OF INDIVIDUAL BOTTLES:**

Bottle Size	mg THC	mg THC + THCA	mg CBD	mg CBD + CBDA	Total Cannabinoids (mg)	Dried Marijuana Equivalent (200mg +/- 20% per gram)
30ml	844	849	3	8	856	3.75



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<b>60ml</b>	<b>1688</b>	<b>1698</b>	<b>6</b>	<b>15</b>	<b>1713</b>	<b>7.5</b>
<b>120ml</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>



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**FINISHED PRODUCT RELEASE CRITERIA (all boxes must be checked)**

- √ Test Results complete and results conform to specifications
- √ Batch Records for lot are complete and demonstrate GPP compliance
- √ Retained Samples obtained

**PRODUCT RELEASE APPROVAL**

- √ **Finished Product Released / Approved for Sale**

Product release authorized by:

\_\_\_\_\_  
Quality Assurance (signature)

06/15/2017

\_\_\_\_\_  
Date (MM/DD/YYYY)

**Comments:**

**FINISHED PRODUCT REJECTION CRITERIA (one or more boxes)**

- Test Results do not conform to specifications
- Batch Records incomplete / do not demonstrate GPP compliance
- Forward to Quality Assurance for investigation

**FINISHED PRODUCT REJECTION APPROVAL**

- Finished Product Rejected / Not Approved for Sale**

Product rejection authorized by:

\_\_\_\_\_  
Quality Assurance (signature)

\_\_\_\_\_  
Date (MM/DD/YYYY)



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## References

1. Health Canada. Marihuana for Medical Purposes Regulations. Guidance Document. Technical Specifications for testing Dried Marihuana for medical purposes. June 19, 2013.
2. Health Canada. Natural Health Products Directorate Regulations. Quality of Natural Health Products Guide. May 1, 2013.
3. European Pharmacopoeia. 8<sup>th</sup> Edition.
4. Health Canada. Natural Health Products Directorate Regulations. Finished Product Specifications Form User Guide. Revised 02/24/2010.
5. WHO. International Pharmacopoeia (Int. Ph., 3<sup>rd</sup> Supplement). 2013.
6. Anandia Labs- European Pharmacopoeia (EP) 5.1.8, method 2.82.
7. Anandia Labs. European Pharmacopoeia 5.1.8, EP methods 2.6.31. USP method for using 10g for Salmonella (harmonized).
8. Anandia Labs. Immunoaffinity column chromatography followed by analysis with UPLC-MS/MS.
9. Anandia Labs. Microwave Digestion and ICP-MS detection (USEPA 6020A R1 2007) - NHPD Elemental Impurity guidelines per day for an Adult using 2g marijuana/day or 20g cannabis oil: (As) 10ug; Cadmium (Cd) 6ug; Lead (Pb) 10ug; Mercury (Hg) 20ug; Methyl-Mercury (Me-Hg) 2ug <(1x10<sup>-5</sup> g As/20g Cannabis Oil) = <1x10<sup>-7</sup> g As/g Cannabis = <500ppb As
10. Anandia Labs. Validated Cannabinoid testing performed using Ultra High Performance Liquid Chromatography coupled with Mass Spectroscopy detection (UPLC-MS/MS)
11. Anandia Labs. Anandia's pesticide screen is performed using (LC-MS/MS). Analyzed for 56 pesticides, fungicides and PGRs. [Anandia Method: AL-407 v1]
12. Anandia Labs. Screening and profiling of 39 terpenes found in cannabis. GC-MS detection [Anandia Method: AL-406 v1]

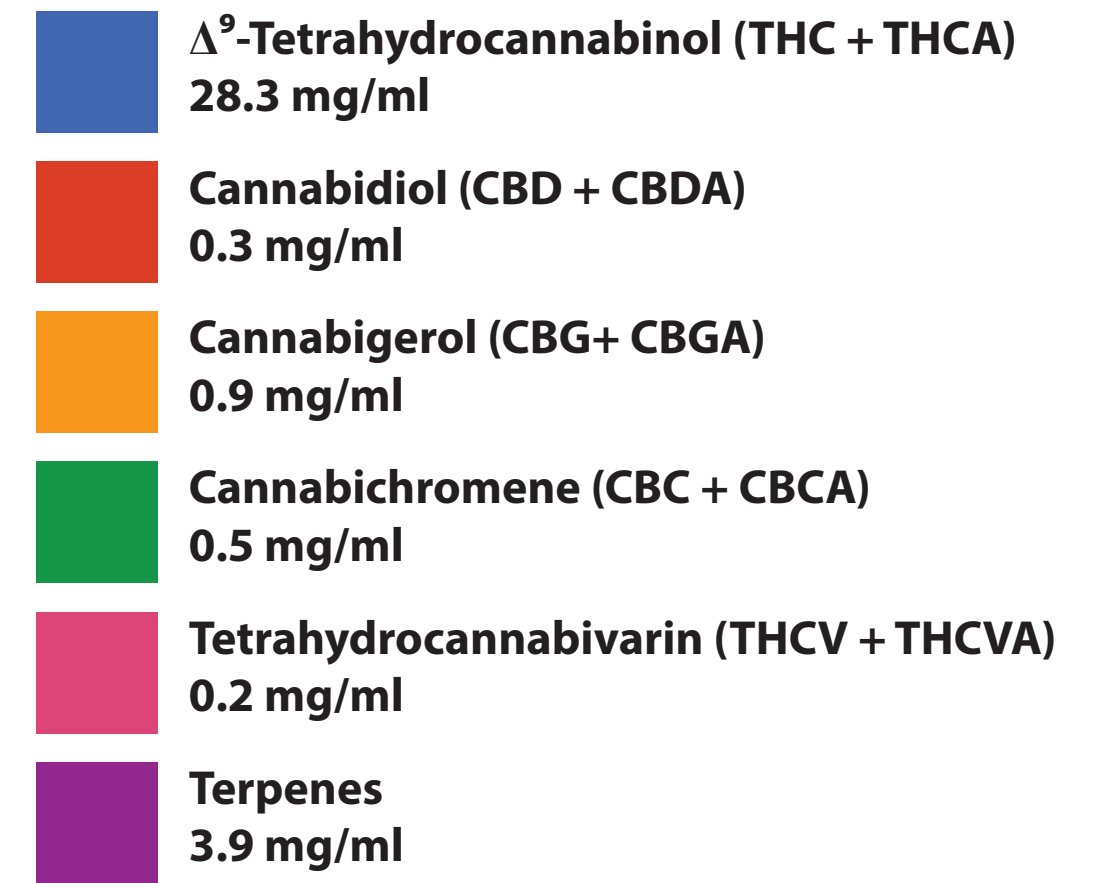
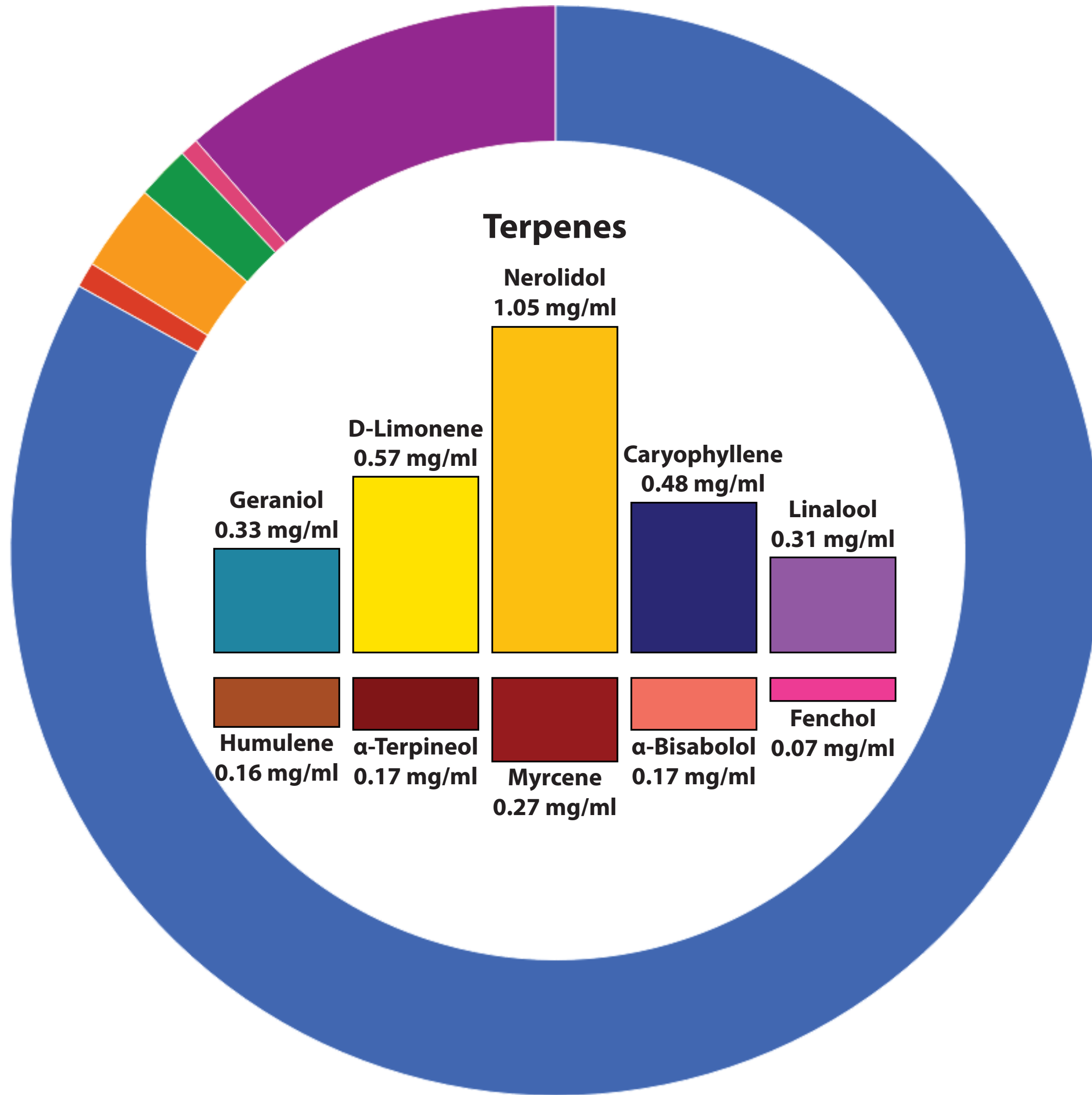


<p style="text-align: center;"><b>CANNABIS OIL FINISHED PRODUCT SPECIFICATION CERTIFICATE OF ANALYSIS</b></p>
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# I040 Super Kush - Potency Profile







**Super Kush**  
**CANNABIS OIL**  
**HUILE DE CANNABIS**  
Lot no. 1040

**30 mL**  
**27.5 g**

% (w/w)	Contains* / Contient*	Total/Totale	Concentration
3.02	Delta-9-Tetrahydrocannabinol/ Delta-9-Tétrahydrocannabinol (THC)	844 mg	28.1 mg/mL
3.04	Total Potential / Totale Potentiel THC (THC+THCA)	849 mg	28.3 mg/mL
0.01	Cannabidiol (CBD)	3 mg	0.09 mg/mL
0.03	Total Potential / Totale Potentiel CBD (CBD+CBDA)	8 mg	0.3 mg/mL
0.42	Terpenes/Terpènes	117 mg	3.9 mg/mL

**The equivalency factor / Facteur d'équivalence**

8 mL of oil = 1 gram of dried marijuana / 8 mL d'huile = 1 gramme de marijuana séchée

\*This product does not contain any known allergens / Ce produit ne contient pas d'allergènes connus

**KEEP OUT OF REACH OF CHILDREN / TENIR HORS DE LA PORTÉE DES ENFANTS**  
**DO NOT STORE IN DIRECT SUNLIGHT / GARDER HORS DE LA LUMIÈRE DIRECTE DU SOLEIL**



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**CANNABIS OIL**  
**HUILE DE CANNABIS**  
Lot no. 1040

**30 mL**  
**27.5 g**

% (w/w)	Contains* / Contient*	Total/Totale	Concentration
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