

**PharmLabs Dallas LLC Certificate of Analysis**

**QA Testing**

2567 Valley View Ln, Dallas, TX 75234, United States | License: 2020001  
 ISO/IEC 17025:2017 Certification L20-89-5 | Accreditation #85368  
 (https://www.dropbox.com/s/viyd644vbfncjoz/L20-89-5\_PharmLabs\_Dallas.pdf?dl=0)



Sample **Fortified Grand Daddy**

Sample ID **TX210323-014 (1368)** Matrix **Flower**

Sampled - Received **Mar 23, 2021** Reported **Mar 23, 2021**

Analyses executed **QARUSH, CAN**

**\*CAN - Cannabinoid Profile Analysis**

Analyzed **Mar 23, 2021** | Instrument **HPLC-DAD** | Method **WI-32**  
 Measurement Uncertainty at 95% confidence **10.0%**

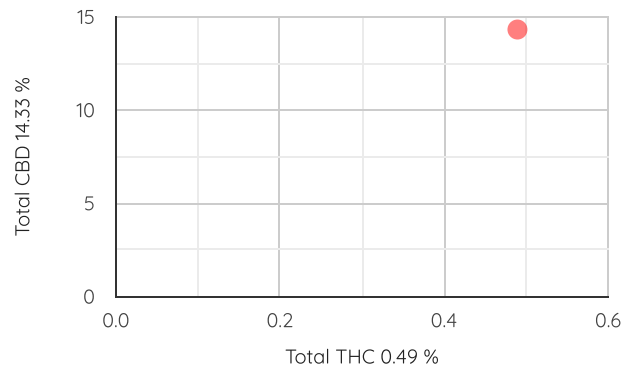
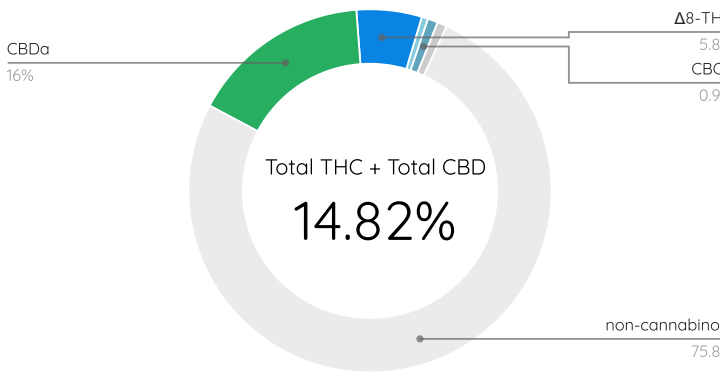
Analyte	LOD	LOQ	Result %	Result mg/g
Cannabidivarinic acid (CBDVa)	2.0e-06	5.0e-06	0.10	1.01
Cannabidivarin (CBDV)	3.0e-06	1.0e-05	ND	ND
Cannabidiolic acid (CBDa)	3.0e-06	8.0e-06	16.02	160.24
Cannabigerolic acid (CBGa)	3.0e-06	8.0e-06	0.39	3.87
Cannabigerol (CBG)	5.0e-06	1.6e-05	ND	ND
Cannabidiol (CBD)	6.0e-06	1.7e-05	0.27	2.72
Tetrahydrocannabivarin (THCV)	6.0e-06	1.7e-05	ND	ND
Tetrahydrocannabivarinic acid (THCVa)	5.0e-06	1.5e-05	ND	ND
Cannabinol (CBN)	3.0e-06	1.0e-05	ND	ND
Cannabinolic acid (CBNa)	8.0e-06	2.6e-05	0.12	1.19
Δ9-Tetrahydrocannabinol (Δ9-THC)	1.2e-05	3.6e-05	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THC)	1.5e-05	4.5e-05	5.81	58.07
Cannabicyclol (CBL)	1.3e-05	3.8e-05	ND	ND
Δ9-Tetrahydrocannabinolic acid (THCa)	9.0e-06	2.8e-05	0.56	5.58
Cannabichromene (CBC)	6.0e-06	1.9e-05	ND	ND
Cannabichromenic acid (CBCa)	2.2e-05	6.7e-05	0.90	9.03
<b>Total THC (THCa * 0.877 + THC)</b>			<b>0.49</b>	<b>4.90</b>
<b>Total CBD (CBDa * 0.877 + CBD)</b>			<b>14.33</b>	<b>143.26</b>
<b>Total CBG (CBGa * 0.877 + CBG)</b>			<b>0.39</b>	<b>3.87</b>
<b>TOTAL CANNABINOIDS</b>			<b>22.13</b>	<b>221.31</b>

\*Dry Weight %

**Cannabinoid Profile Visualization**

Breakdown of the main cannabinoids quantified.

THC:CBD ratio quantified in sample



ND Not Detected  
 N/A Not Applicable  
 NT Not Reported  
 LOD Limit of Detection  
 LOQ Limit of Quantification  
 <LOQ Detected  
 >ULOL Above upper limit of linearity  
 CFU/g Colony Forming Units per 1 gram



Authorized Signature  
  
 Dr. Archana R. Parameswar, Laboratory Director  
 Tue, 23 Mar 2021 17:02:50 -0500

# High Hopes Granddaddy Purple

Overall Status: Pass

Sample ID: 2105NIVA0590.2018  
Strain: Granddaddy Purple  
Matrix: Plant  
Type: Flower - Cured  
Sample Size: ; Batch Size:

Produced:  
Collected: 05/12/2021  
Received: 05/12/2021  
Completed: 05/18/2021  
Batch#: 32321BB0523

Client  
**Koi CBD**  
Lic. #  
14631 Best Ave  
Norwalk, CA 90650

	<p><b>Pass</b></p> <p>Foreign Matter</p> <p>SOPTS.4.001</p>	<p><b>Pass</b></p> <p>Heavy Metals</p> <p>SOPTS.4.500 ICP-MS</p>	<p><b>Complete</b></p> <p>Moisture</p> <p>SOPTS.4.001</p>	<p><b>Pass</b></p> <p>Pesticides</p> <p>SOPTS.4.301 GC-MS/MS SOPTS.4.300 LC-MS/MS</p>
	<p><b>Pass</b></p> <p>Microbials</p> <p>SOPTS.4.600 PathogenDx</p>	<p><b>Not Tested</b></p> <p>Solvents</p> <p>SOPTS.4.400 GC-MS</p>	<p><b>Pass</b></p> <p>0.49 aw</p> <p>Water Activity</p> <p>SOPTS.4.003</p>	<p><b>Pass</b></p> <p>Mycotoxins</p> <p>SOPTS.4.300 LC-MS/MS</p>

## Cannabinoids (SOPTS.4.100 HPLC Analysis)

Total THC	Total CBD	Total Cannabinoids	7.37%	Moisture
Analyte	LOD	LOQ	Mass	Mass

Density: g per 1 mL

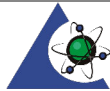
Cannabinoids Date Tested:

Total THC = (THCa x 0.877) + Δ9-THC; Total CBD = (CBDa x 0.877) + CBD; LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; NT = Not Tested; Cured plant material reported as moisture-corrected % dry weight, other sample types reported "as is." Unless otherwise stated, all quality control samples performed within specifications established by the Laboratory. Analytical Instrumentation: Agilent 1260 HPLC.

Water Activity Analytical Instrumentation: Rotronic HCW HC2-AW-USB Water Activity Meter. Water Activity Analysis Date:; Water Activity Date Tested: 05/13/2021

Moisture Content Analytical Instrumentation: Ohaus MB90 Moisture Balance. Moisture Content Analysis Date:; Moisture Date Tested: 05/13/2021

Foreign Material Analytical Instrumentation: Illuminated Magnifying Lens. Foreign Material Analysis Date:; Foreign Matter Date Tested: 05/17/2021



Accreditation #101219  
ISO/IEC 17025:2017

Noah Kaplan  
Lab Director  
05/18/2021

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13171 Telfair Ave  
Sylmar, CA 91342

(213) 225-6482  
thenivalabs.com/  
Lic# C8-0000024-LIC

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## Microbials

Pass

Analyte	Result	Status
Aspergillus flavus	Not Detected in 1g	Pass
Aspergillus fumigatus	Not Detected in 1g	Pass
Aspergillus niger	Not Detected in 1g	Pass
Aspergillus terreus	Not Detected in 1g	Pass
Shiga toxin-producing E. Coli	Not Detected in 1g	Pass
Salmonella SPP	Not Detected in 1g	Pass

Date Tested: 05/14/2021

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

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## Mycotoxins

Pass

Analyte	LOD µg/kg	LOQ µg/kg	Limit µg/kg	Units µg/kg	Status
B1	4.00	5.00		ND	Tested
B2	4.00	5.00		ND	Tested
G1	4.00	5.00		ND	Tested
G2	4.00	5.00		ND	Tested
Total Aflatoxins			20	ND	Pass
Ochratoxin A	16	20	20	ND	Pass

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## Heavy Metals

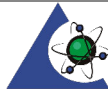
Pass

Analyte	LOD µg/g	LOQ µg/g	Limit µg/g	Units µg/g	Status
Arsenic	0.009	0.090	0.2	<LOQ	Pass
Cadmium	0.009	0.090	0.2	<LOQ	Pass
Lead	0.009	0.090	0.5	0.307	Pass
Mercury	0.005	0.020	0.1	ND	Pass

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Lab Director  
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QA Testing

3 of 4

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## Pesticides

Pass

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.040	0.050	0.1	ND	Pass	Fludioxonil	0.040	0.050	0.1	ND	Pass
Acephate	0.050	0.100	0.1	ND	Pass	Hexythiazox	0.010	0.020	0.1	ND	Pass
Acequinocyl	0.040	0.050	0.1	ND	Pass	Imazalil	0.040	0.050	0.04	ND	Pass
Acetamiprid	0.010	0.020	0.1	ND	Pass	Imidacloprid	0.010	0.020	5	ND	Pass
Aldicarb	0.010	0.020	0.01	ND	Pass	Kresoxim Methyl	0.020	0.050	0.1	ND	Pass
Azoxystrobin	0.010	0.020	0.1	ND	Pass	Malathion	0.010	0.020	0.5	ND	Pass
Bifenazate	0.010	0.020	0.1	ND	Pass	Metalaxyl	0.010	0.020	2	ND	Pass
Bifenthrin	0.010	0.020	3	ND	Pass	Methiocarb	0.010	0.020	0.01	ND	Pass
Boscalid	0.040	0.050	0.1	ND	Pass	Methomyl	0.010	0.020	1	ND	Pass
Captan	0.100	0.100	0.7	ND	Pass	Mevinphos	0.018	0.045	0.018	ND	Pass
Carbaryl	0.020	0.050	0.5	ND	Pass	Myclobutanil	0.040	0.050	0.1	ND	Pass
Carbofuran	0.010	0.020	0.01	ND	Pass	Naled	0.040	0.050	0.1	ND	Pass
Chlorantraniliprole	0.040	0.050	10	ND	Pass	Oxamyl	0.010	0.020	0.5	ND	Pass
Chlordane	0.030	0.050	0.03	ND	Pass	Pacllobutrazol	0.040	0.050	0.04	ND	Pass
Chlorfenapyr	0.030	0.050	0.03	ND	Pass	Parathion Methyl	0.030	0.050	0.03	ND	Pass
Chlorpyrifos	0.020	0.050	0.020	ND	Pass	Pentachloronitrobenzene	0.030	0.050	0.1	ND	Pass
Clofentezine	0.010	0.020	0.1	ND	Pass	Permethrin	0.020	0.050	0.5	ND	Pass
Coumaphos	0.050	0.100	0.05	ND	Pass	Phosmet	0.010	0.020	0.1	ND	Pass
Cyfluthrin	0.050	0.100	2	ND	Pass	Piperonyl Butoxide	0.010	0.020	3	ND	Pass
Cypermethrin	0.050	0.100	1	ND	Pass	Prallethrin	0.040	0.050	0.1	ND	Pass
Daminozide	0.040	0.050	0.04	ND	Pass	Propiconazole	0.040	0.050	0.1	ND	Pass
Diazinon	0.010	0.020	0.1	ND	Pass	Propoxur	0.010	0.020	0.01	ND	Pass
Dichlorvos	0.050	0.100	0.05	ND	Pass	Pyrethrins	0.042	0.084	0.5	ND	Pass
Dimethoate	0.010	0.020	0.01	ND	Pass	Pyridaben	0.030	0.050	0.1	ND	Pass
Dimethomorph	0.020	0.050	2	ND	Pass	Spinetoram	0.041	0.061	0.1	ND	Pass
Ethoprophos	0.010	0.020	0.01	ND	Pass	Spinosad	0.019	0.048	0.1	ND	Pass
Etofenprox	0.010	0.020	0.01	ND	Pass	Spiromesifen	0.010	0.020	0.1	ND	Pass
Etoxazole	0.010	0.020	0.1	ND	Pass	Spirotetramat	0.020	0.050	0.1	ND	Pass
Fenhexamid	0.040	0.050	0.1	ND	Pass	Spiroxamine	0.010	0.020	0.01	ND	Pass
Fenoxycarb	0.010	0.020	0.01	ND	Pass	Tebuconazole	0.050	0.100	0.1	ND	Pass
Fenpyroximate	0.010	0.020	0.1	ND	Pass	Thiacloprid	0.010	0.020	0.01	ND	Pass
Fipronil	0.040	0.050	0.04	ND	Pass	Thiamethoxam	0.010	0.020	5	ND	Pass
Fonicamid	0.010	0.020	0.1	ND	Pass	Trifloxystrobin	0.010	0.020	0.1	ND	Pass

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## Terpenes

Analyte	LOD PPB	LOQ PPB	Mass PPB	Mass mg/g	
β-Caryophyllene			4100000.00	4.10	
α-Humulene			1300000.00	1.30	
δ-Limonene			1000000.00	1.00	
α-Bisabolol			900000.00	0.90	
β-Myrcene			600000.00	0.60	
Linalool			300000.00	0.30	
α-Pinene			100000.00	0.10	
β-Pinene			100000.00	0.10	
Guaiol			100000.00	0.10	
α-Terpinene			ND	ND	
Camphene			ND	ND	
cis-Nerolidol			ND	ND	
δ-3-Carene			ND	ND	
γ-Terpinene			ND	ND	
Isopulegol			ND	ND	
Ocimene			ND	ND	
p-Cymene			ND	ND	
Terpinolene			ND	ND	
trans-Nerolidol			ND	ND	
<b>Total</b>			<b>8500000.00</b>	<b>8.50</b>	

## Primary Aromas



Cinnamon



Hops



Orange



Chamomile



Lavender

Date Tested: 05/14/2021

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This terpenes method has not yet been evaluated for ISO/IEC 17025 accreditation.



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