



51 W. Weldon Ave
Phoenix, AZ
(480) 788-6644
www.desertvalleytesting.com

Certificate of Analysis

ISO/IEC 17025:2017 Certificate #: AT-2837
License #: 00000003LCIN00627986

Niko Russo

License #: 00000078ESQG10647381
51 W. Weldon
Phoenix, AZ 85050
(602) 269-0347

Additional Licenses:
Batch #: F.RZ22129.A02; External Lot #:
Source Batch #: F.RZ22129.A02
Sample Batch Collection: 01/31/23 12:00
Sample Received: 1/31/2023; Report Created: 2/8/2023

RUNTZ
RUNTZ

Laboratory Number: 2301144-01
Matrix: Concentrates

Metals PASS	Pesticides PASS	Residual Solvents PASS	E. coli PASS	Mycotoxins PASS	Aspergillus PASS	Salmonella PASS
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Sample Image



Residual Solvents (GC-MS) Analyzed: 02/02/23 By: KSG

SOP: 004	RL	ppm	Q
Propane	608.57	ND	
Butanes	608.57	1465.5	
Pentanes	141.19	ND	
Acetonitrile	199.61	ND	
Dichloromethane	292.11	ND	
Hexanes	141.19	ND	
Chloroform	29.21	ND	
n-Heptane	2434.3	ND	
Methanol	1460.6	ND	
Ethanol	2434.3	ND	
Diethyl Ether	2434.3	ND	
Acetone	486.85	ND	
Isopropanol	2434.3	ND	
Ethyl acetate	2434.3	ND	
Isopropyl acetate	2434.3	ND	
Benzene	0.97	ND	L1, M1, V1
Toluene	433.30	ND	
Xylenes	97.37	ND	

Cannabinoid (HPLC-DAD) Analyzed: 02/03/23 By: MLC

SOP: 003	LOQ %	%	mg/g	Q
THC-A	1.43	76.58	765.8	D1
delta 9-THC	0.05	1.23	12	
delta 8-THC	0.05	ND	ND	
THC-V	0.05	0.07	0.7	
CBG-A	0.05	1.98	20	
CBD-A	0.05	0.29	2.9	
CBD	0.05	ND	ND	
CBD-V	0.05	ND	ND	
CBN	0.05	ND	ND	
CBG	0.05	0.35	3.5	
CBC	0.05	ND	ND	

Metals (ICP-MS) Analyzed: 02/06/23 By: ZEN

SOP: 035	RL	ppm	Q
Arsenic	0.098	ND	M2, V1
Cadmium	0.098	ND	M2, V1
Lead	0.244	ND	M2, V1
Mercury	0.098	ND	L1, V1

Microbials (Petrifilm) Analyzed: 2/3/2023 By: ATF

SOP: 023	RL	Result	Units	Q
E. coli	10	<10	cfu/g	

Microbials (PCR) Analyzed: 2/3/2023 By: ATF

SOP: 015	RL	Result	Units	Q
Aspergillus	1.00	Not Detected	per gram	

Microbials (PCR) Analyzed: 2/7/2023 By: ATF

SOP: 028	RL	Result	Units	Q
Salmonella	1.00	Not Detected	per gram	

68.39 % 683.61 mg/g Total THC	0.26 % 2.54 mg/g Total CBD	80.50 % 804.90 mg/g Total Cannabinoids
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Total THC = THCa * 0.877 + delta 9-THC; Total CBD = CBDa * 0.877 + CBD

Mycotoxins (LC-MS/MS) Analyzed: 02/04/23 By: SPS

SOP: 011	RL	ppb	Q
Aflatoxins	9.95	ND	
Ochratoxins	9.95	ND	

RL = Reporting Limit
NT = Not Tested
ND = Non Detected
LOQ = Limit of Quantitation

Erin Polly
Technical Laboratory Director



Testing results were obtained according to requirements in the quality assurance plan in R9-17-404.05, in the applicable standard operating procedure, and in R9-17-404.03 or R9-17-404.04. Any variances from these requirements, and the reason for the variance, will be documented in the case narrative. Values reported only relate to the product tested. Desert Valley Testing makes no claims to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full without the written approval of Desert Valley Testing.



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Pesticides (LC-MS/MS) Analyzed: 02/04/23 By: SPS							
SOP: 011	RL	ppm	Q		RL	ppm	Q
Acephate	0.199	ND		Acequinocyl	0.995	ND	
Acetamiprid	0.099	ND		Aldicarb	0.199	ND	
Azoxystrobin	0.099	ND		Bifenthrin	0.099	ND	
Boscalid	0.199	ND		Carbaryl	0.099	ND	
Carbofuran	0.099	ND		Chlorpyrifos	0.099	ND	
Diazinon	0.099	ND	M2	Dimethoate	0.099	ND	
Ethoprophos	0.099	ND	M2	Etofenprox	0.199	ND	
Etoxazole	0.099	ND	M2	Fenoxycarb	0.099	ND	
Fenpyroximate E	0.199	ND		Flonicamid	0.497	ND	
Fludioxonil	0.199	ND		Hexythiazox	0.497	ND	
Imazalil	0.099	ND		Imidacloprid	0.199	ND	
Kresoxim-methyl	0.199	ND	M2	Malathion	0.099	ND	
Metalaxyl	0.099	ND		Methiocarb	0.099	ND	
Methomyl	0.199	ND		Myclobutanil	0.099	ND	
Naled	0.249	ND		Oxamyl	0.497	ND	
Piperonyl butoxide	0.995	ND		Propiconazole	0.199	ND	M1
Propoxure	0.099	ND		Spiromesifen	0.099	ND	
Spirotetramat	0.099	ND		Spiroxamine	0.199	ND	
Tebuconazole	0.199	ND		Thiacloprid	0.099	ND	
Thiamethoxam	0.099	ND		Trifloxystrobin	0.099	ND	M2
Abamectin	0.249	ND	V1	Bifenazate	0.099	ND	
Chlorantraniliprole	0.099	ND		Clofentezine	0.099	ND	
Cyfluthrin	0.995	ND		Cypermethrin	0.497	ND	
Daminozide	0.497	ND		DDVP (Dichlorvos)	0.050	ND	
Fipronil	0.199	ND		Paclobutrazol	0.199	ND	
Permethrins	0.099	ND	M2	Phosmet	0.099	ND	
Prallethrin	0.099	ND		Pyrethrins	0.497	ND	M1
Pyridaben	0.099	ND		Spinosad	0.099	ND	M2
Chlorfenapyr	0.995	ND					

Herbicides (LC-MS/MS) Analyzed: By:			
SOP: 011	RL	ppm	Q
Pendimethalin	NT	NT	

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Microbials (Petrifilm) Analyzed: By:				
SOP: 006	RL	Result	Units	Q
Total Coliform	NT	NT	cfu/g	
Yeast	NT	NT	cfu/g	
Mold	NT	NT	cfu/g	
Aerobic Bacteria	NT	NT	cfu/g	

Terpenes (GC-MS) Analyzed: 02/02/23 By: ZEN			
SOP: 005	mg/g	%	Q
alpha-Bisabolol	7.1	0.71	
(-)-Borneol and (+)-Borneol	ND	ND	
Camphene	ND	ND	
Camphor	ND	ND	
beta-Caryophyllene	ND	ND	
trans-Caryophyllene	11	1.14	
Caryophyllene Oxide	ND	ND	
alpha-Cedrene	ND	ND	
Cedrol	ND	ND	
Endo-fenchyl Alcohol	1.4	0.14	
Eucalyptol	ND	ND	
Fenchone	ND	ND	
Geraniol	ND	ND	
Geranyl acetate	ND	ND	
Guaial	ND	ND	
Hexahydrothymol	ND	ND	
alpha-Humulene	6.7	0.67	
Isoborneol	ND	ND	
Isopulegol	ND	ND	
Limonene	22	2.18	
Linalool	9.9	0.99	
p-Mentha-1,5-diene	ND	ND	
beta-Myrcene	1.0	0.10	
trans-Nerolidol	ND	ND	
Ocimene	2.7	0.27	
alpha-Pinene	6.5	0.65	
beta-Pinene	2.6	0.26	
Pulegone	ND	ND	
Sabinene	ND	ND	
Sabinene Hydrate	ND	ND	
gamma-Terpinene	ND	ND	
alpha-Terpinene	ND	ND	
3-Carene	ND	ND	
Terpineol	2.2	0.22	
Terpinolene	ND	ND	
Valencene	ND	ND	
Nerol	ND	ND	
cis-Nerolidol	ND	ND	
Total Terpenes	73.30	7.32	

Water Activity (Water Activity Meter) Analyzed: By:			
SOP: 007	AW, 25 °C		Q
Water Activity		NT	

Moisture (Moisture Analyzer) Analyzed: By:			
SOP: 008	%		Q
Percent Moisture		NT	

pH Test (pH Meter) Analyzed: By:			
SOP: 022	NA		Q
pH		NT	

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QUALIFIER DEFINITIONS

- D1 The limit of quantitation and the sample results were adjusted to reflect sample dilution.
- L1 The percent recovery of a laboratory control sample is greater than the acceptance limits, but the sample's target analytes are not detected above the maximum allowable concentrations for the analytes in the sample.
- M1 Matrix spike recovery is high, but the recovery from the laboratory control sample and duplicate are within acceptance criteria.
- M2 Matrix spike recovery is low, but the recovery from the laboratory control sample and duplicate are within acceptance criteria.
- V1 Continuing Calibration Verification (CCV) recovery exceeds acceptable limits; but the sample's target analytes are not detected above the maximum allowable concentrations for the analytes in the sample.

CASE NARRATIVE

RL = Reporting Limit
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