Bia Diagnostics Laboratories

Bia Diagnostics
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Colchester, VT 05446

(802) 540-0148
https://www.biadiagnostics.com/
Lic# TLAB0029

29-B

Sample ID: BIA250502S0023
Strain: Red Runtz

Matrix: Plant
Type: Flower - Cured
Sample Size: 7.44 g
Lot#:

Produced:
Collected:
Received: 05/02/2025
Completed: 05/08/2025
Batch#:

Client
High Altitude Cannabis
Lic. # SCLT0162
313 Kate Brook Rd
Hardwick, VT 05483

Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	05/05/2025	Complete
Moisture	05/02/2025	10.90% - Complete
Water Activity	05/05/2025	0.543 aw - Complete
Terpenes	05/07/2025	Complete
Microbials	05/08/2025	Complete

Cannabinoids

Completed

29.40%	0.09%	34.51%
Total THC	Total CBD	Total Cannabinoids

Analyte	LOQ	Results	Results	Mass
	mg/g	%	mg/g	mg/serving
CBDVa	0.0005	<LOQ	<LOQ	
CBDV	0.0012	<LOQ	<LOQ	
CBDa	0.0008	0.10	1.0	
CBGa	0.0008	0.93	9.3	
CBG	0.0019	0.07	0.7	
CBD	0.0019	<LOQ	<LOQ	
THCV	0.0021	<LOQ	<LOQ	
CBN	0.0013	<LOQ	<LOQ	
Δ9-THC	0.0020	0.73	7.3	
Δ8-THC	0.0019	<LOQ	<LOQ	
Δ10-THC	0.0002	<LOQ	<LOQ	
CBC	0.0024	<LOQ	<LOQ	
THCa	0.0034	32.69	326.9	
Total THC		**29.40**	**293.95**	
Total CBD		**0.09**	**0.86**	
Total		**34.51**	**345.13**	**0.00**

Analyst: 056
Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)
Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:
TotalTHC=(THCAx0.877)+Δ9-THC
Total CBD = (CBDA x 0.877) + CBD Reagent
Blanks: < LOQs for all analytes
LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).
All results reflect dry weight of material, based on % moisture of the sample.
Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. Δ9-THC MU = ±0.005% Total THC MU = ±0.007%
All other cannabinoid MU values are available upon request.
All moisture and water activity analysis is determined by dewpoint measurement using an AQUALAB water activity meter.

Luke Emerson-Mason
Laboratory Director
05/08/2025

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Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
Limonene	0.010	9.293	0.929
β-Myrcene	0.010	3.884	0.388
Linalool	0.010	3.315	0.332
β-Pinene	0.010	3.121	0.312
Ocimene	0.010	2.795	0.280
α-Pinene	0.010	1.919	0.192
β-Caryophyllene	0.010	1.854	0.185
α-Humulene	0.010	0.540	0.054
Camphene	0.010	0.324	0.032
Terpinolene	0.010	0.197	0.020
γ-Terpinene	0.010	0.026	0.003
α-Terpinene	0.010	0.018	0.002
Eucalyptol	0.010	0.012	0.001
α-Bisabolol	0.010	0.011	0.001
3-Carene	0.010	<LOQ	<LOQ
Caryophyllene Oxide	0.010	<LOQ	<LOQ
cis-Nerolidol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Guaiol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
Total		**27.308**	**2.731**

Primary Aromas

Analyst: 052
LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).
Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS
Reagent Blanks: < LOQs for all analytes
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Laboratory Director
05/08/2025

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Pathogens

Completed

Pathogens	LOD	Results
	CFU/g	CFU/g
Aspergillus	5	Not Detected
Shiga Toxin E. Coli	5	Not Detected
Salmonella SPP	5	Not Detected

Analyst: 018
Test Methodology: Bio-Rad IQ-Check PCR Kits
cfu/g = colony forming units per gram
LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (<LOD).
Reagent Blanks: <LOD for all analytes

Luke Emerson-Mason
Laboratory Director
05/08/2025