

Testing Accreditation #: 77802

Test Certificate #: 134100-001

<p>Client Name, Sample Details Gourmet Nuts & Delicacies Howell, MI 48843 Sample: Cinnamon Roasted CBD Almonds Type: Edible Method: FE04U12 HPLC-UV</p>	<p>Test Conditions Prepsheet ID#: MIP211122B Scale: XS205-MI2 Temp: 21.5 °C Baro Pressure: 982 hPa Analyst: SKM Technician: SKM/VU</p>	<p>Sample ID#: 134100 Harvest/Process Date: 11/23/2021 Serving Size (g): 87.74 Date Received: 11/23/2021 Test Date: 11/22/2021 Valid Through: 11/23/2022 Report Issued: 11/23/2021</p>	
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Test Compounds	Δ9-THC	THCA	Δ8-THC	CBD	CBDA	CBG	CBGA	CBN	CBC	CBL	THCV	CBDV	Total Cannabinoids*	Total THC	Total CBD	Calc Max Total Cannabinoids*
Amount (%)	N/D	N/D	N/D	0.1	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	0.1	N/D	0.1	0.1
Amount (mg/g)	N/D	N/D	N/D	1.3	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	1.3	N/D	1.3	1.3
Amount per Serving (mg)	N/D	N/D	N/D	114.062	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D	114.1	Serving Size~ (g):		87.7
LOQ (mg/g)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		%Decarb.	THC	CBD
±%RPD	1.00%	2.11%	3.01%	3.13%	0.06%	3.39%	0.56%	0.46%	0.44%	0.58%	1.43%	1.05%			N/A	100%

Serving size = contents of package = 87.74g.

LOQ = Limit of Quantitation; %RPD = Relative Percent Deviation; %RSD = Relative Standard Deviation; N/D = Not Detected

*Designates values that are not currently included in the accredited scope of Iron Laboratories.

*** Designates tests that use the method FE-45. FE-45 is performed using AOAC 966.02 and 32.004-32.009.

FE-45 has relative expanded (k=2) uncertainties of 1.098% for moisture, 1.754% for water activity for unprocessed plant materials, and 13.102% for water activity for infused products.

Vitamin E acetate analysis has a relative expanded (k=2) uncertainty of 18.614%.

Total THC + Total CBD is less than 100% of Total THC + Total CBD.

Total THC and CBD is the calculated sum of $\Delta 9$ -THC and $\Delta 8$ -THC or CBD plus the amount of THC or CBD derived from THCA or CBDA, respectively. These values are calculated by applying a molar correction factor of 0.877 to the THCA or the CBDA value. Calc Max Total Cannabinoids is the sum of Total THC, Total CBD, CBN, Total CBG, CBC, THCV, CBDV, and CBL. Total CBG is calculated as CBG plus CBGA*0.878 (the molar correction factor for CBGA to CBG conversion). %Decarb. THC and CBD refer to the percentage of $\Delta 9$ -THC or CBD relative to THCA or CBDA, respectively.

This sample has not undergone random sampling and has not been tested for compliant state, batch representative testing. These results should therefore be used for research and development or quality control purposes only. Results apply to the sample as received.

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Katrina Barnes, Lab Manager




Mackenzie E. Hyman, Quality Manager

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Tested by Iron Laboratories Michigan, 1825 E. West Maple Walled Lake, MI 48390



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QC Report

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Target Compound Name	Method Blank (µg/g)	LCS Spike (µg/g)	LCS Amount (µg/g)	Percent Recovery (%) LCS	LCS Duplicate Amount (µg/g)	Percent Recovery (%) LCSD	Relative Percent Difference (%)	QC Flag
Δ9-THC	0	5.162211539	5.390983286	104.43	5.445036346	105.48	1.00%	
THCA	0	5.675672902	5.783	101.89	5.906161554	104.06	2.11%	
Δ8-THC	0	5.135496133	5.546410441	108.00	5.381847034	104.80	3.01%	
CBD	0	5.186830545	5.69961069	109.89	5.523952581	106.50	3.13%	
CBDA	0	5.536183449	5.762904372	104.10	5.766087007	104.15	0.06%	
CBG	0	5.28031115	5.766717205	109.21	5.57463761	105.57	3.39%	
CBGA	0	5.414278306	5.696035125	105.20	5.664432471	104.62	0.56%	
CBN	0	5.226145671	5.401685941	103.36	5.426414699	103.83	0.46%	
CBC	0	5.128051294	5.34120384	104.16	5.365017941	104.62	0.44%	
CBCA	N/A	N/A	N/A	nan	N/A	nan	0%	
CBL	0	5.037748372	5.241013837	104.03	5.271682011	104.64	0.58%	
THCV	0	5.38922189	5.302982511	98.40	5.37960216	99.82	1.43%	
CBDV	0	5.151610241	5.355888788	103.97	5.412187902	105.06	1.05%	

N.D. = Not Detected

LR = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) Low recovery should be scrutinized for possible fail as it could indicate more compound present than is detected.

I = indicates that an amount of an interfering compound greater than the methods limit of detection was detected in the method blank sample. May indicate contamination of analytical system or consumables.

Q = indicates that the relative percent difference of two identically prepared Matrix Spike samples for a target analyte was greater than 20%

HR = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) high recoveries should be scrutinized for passing as more compound may be detected than is actually present in the sample.

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