

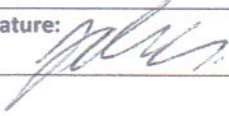


Agriculture and Food Testing Solutions

## CERTIFICATE OF ANALYSIS

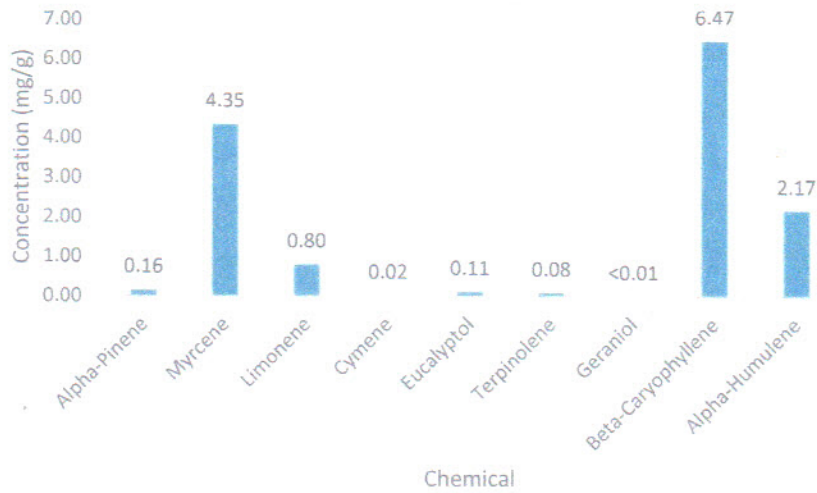
Certificate ID: CS0044\_18616\_002\_T  
Client Sample ID: AGSSD  
Sample Description: Special Sauce (Dry Bud)  
Sample Received: 11-Sep-18  
Analysis Initiated: 28-Sep-18

Appalachian Growers LLC  
64 Whitewater Drive  
Maggie Valley, NC 28751  
Attn: Lori Lacey

Analyst: Jacob Edwards	Signature: 	Date: 1-Oct-18
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Test Type: Terpene Profile  
Technical Procedure: TP A0037-001

### Results:<sup>1</sup>



Terpene ID	Concentration (mg/g dry weight)
$\alpha$ -Pinene	0.16
Myrcene	4.35
Limonene	0.80
Cymene	0.02
Eucalyptol	0.11
Terpinolene	0.08
Geraniol	<0.01
$\beta$ -Caryophyllene	6.47
$\alpha$ -Humulene	2.17

<sup>1</sup>Concentrations of terpenes were determined by GC-MS with an Avazyme intra lab method utilizing certified reference standards for each chemical analyzed.

Avazyme warrants that this study was performed in accordance with appropriate laboratory research practices and protocols. Avazyme is not responsible for Sponsor's use of the information or concepts generated as part of the study, and will not be liable for any loss or damage resulting from such use.



North Carolina Department of Agriculture and Consumer Services  
Food and Drug Protection Division Laboratory  
4000 Reedy Creek Road, Raleigh, NC 27607

**Steve Troxler**  
Commissioner

**Anita MacMullan**  
Director

**TEST REPORT**

**Sample Submitted By:**

NCDA&CS Plant Industry Division  
216 West Jones St.  
Raleigh, NC 27603

**Date Sample Received:** 08/14/2018  
**Transcript #:** 081418-012  
**Grower/Applicant Name:** Appalachian Growers  
**Grower License #:** SEM-NC185-001  
**County:** Macon  
**Variety/Comments:** Special Sauce

Page 1 of 1



Final Report



\*Interim Report



Amended Report

Sample Description: Industrial Hemp

Number of Subs:

Results:

Units:

**LIMS#:** AA97681

**FDC & Sub#:** 081418-012

Delta-9-Tetrahydrocannabinol

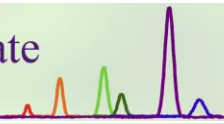
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Approved by: Don Daley

Date: August 17, 2018

\*Interim reports serve only as a notification of preliminary results. Interim results are not final. This document can not be reproduced except in full without the written approval of the NCDA&CS FDPD Laboratory. The results listed in this report pertain only to the samples as provided to the lab by the customer.



Certificate ID: **40806**

Received: **10/3/18**

Scan QR Code for authenticity



**Appalachain Growers (AG1,LLC)**

**42 Wilkinson Pass Lane, #303**


**Waynesville, NC 28786**

**Attn: Lori Lacy**

Client Sample ID: **Special Sauce Dry**

Lot Number: **02**

Matrix: **Flowers/Bud - Dry**

Authorization: <b>Jon Podgorni, Lab Manager</b>	Signature: 	Date: <b>10/22/2018</b>
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The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2005. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

**CN: Cannabinoid Profile & Potency [WI-10-17]**

*Analyst: JSG*

*Test Date: 10/19/2018*

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

**40806-CN**

ID	Weight %	Conc.		
D9-THC	0.10 wt %	1.02 mg/g		
THCV	ND	ND		
CBD	0.71 wt %	7.10 mg/g		
CBDV	ND	ND		
CBG	ND	ND		
CBC	0.07 wt %	0.66 mg/g		
CBN	ND	ND		
THCA	0.66 wt %	6.59 mg/g		
CBDA	19.05 wt %	190.52 mg/g		
CBGA	0.89 wt %	8.92 mg/g		
Total	21.48 wt%	214.82 mg/g	0%	Cannabinoids (wt%) 19.1%
Max THC	0.68 wt%	6.80 mg/g		
Max CBD	17.42 wt%	174.19 mg/g		

**Ratio of Total CBD to THC 25.6:1**

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. ND = None detected above the limits of detection (LLD)