

**SUMMARY OF ANALYSIS (SAMPLE ID: SA31833)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR9903 <b>Lot Number:</b> M00065C13134325150 <b>Batch Number:</b> 5005	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 8g <b>Date Collected:</b> 06/29/2022 <b>Date Received:</b> 06/30/2022 <b>Date Completed:</b> 07/04/2022
<b>Cultivar (Strain) or Sample Description:</b> Bacio Gelato			

\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

**Moisture Content (%)**

13.0

**Water Activity (aw)**

0.549 @ 25.0°C

**PASS/FAIL**

**PASS**

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

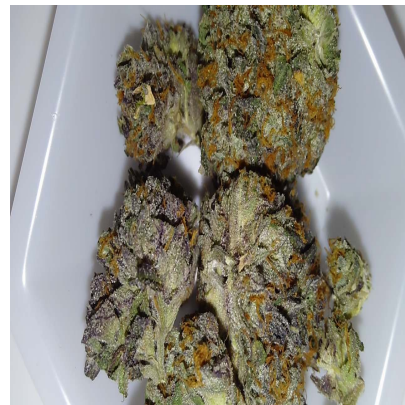
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	15.9	159
CBGA	1.10	11.0
Δ9-THC	0.964	9.64
TOTAL CBD	-	-
TOTAL THC	14.9	149
TOTAL CANNABINOIDS	18.3	183

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
Geraniol	0.723	7230
β-Pinene	0.239	2390
Terpinolene	0.228	2280
β-Caryophyllene	0.225	2250
Guaiol	0.138	1380
TOTAL TERPENES	1.84	18400

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Pesticides:	<b>PASS</b>

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

**Mandatory**

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31833)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR9903 <b>Lot Number:</b> M00065C13134325150 <b>Batch Number:</b> 5005	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 8g <b>Date Collected:</b> 06/29/2022 <b>Date Received:</b> 06/30/2022
--	---	---	--

**Cultivar (Strain) or Sample Description:** Bacio Gelato **Date Completed:** 07/04/2022

**CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)**

**Analysis Date/Time:** 07/01/2022 1836 **Method:** HPLC/DAD **Moisture Content (%):** 13  
**Analyst:** PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.5492 @ 25.03°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	DET	-	DET	0.451	-	-	-
CBCA	-	-	-	0.0451	-	-	-
CBD	DET	-	DET	0.451	-	-	-
CBDA	DET	-	DET	0.451	-	-	-
CBDV	-	-	-	0.451	-	-	-
CBDVA	0.122	0.0110	1.22	0.451	-	1.22	1.22
CBG	-	-	-	0.451	-	-	-
CBGA	1.10	0.120	11.0	0.451	-	11.0	11.0
CBL	DET	-	DET	0.451	-	-	-
CBN	-	-	-	0.451	-	-	-
CBNA	-	-	-	0.451	-	-	-
Δ9-THC	0.964	0.164	9.64	0.451	-	9.64	9.64
Δ8-THC	DET	-	DET	0.451	-	-	-
THCA	15.9	1.59	159	0.451	-	159	159
THCV	0.0633	0.00507	0.633	0.451	-	0.633	0.633
THCVA	0.120	0.00598	1.20	0.451	-	1.20	1.20
<b>TOTAL</b>	<b>18.3</b>	<b>1.90</b>	<b>183</b>			<b>183</b>	<b>183</b>
<b>TOTAL CBC</b>	-	-	-			-	-
<b>TOTAL CBD</b>	-	-	-			-	-
<b>TOTAL CBDV</b>	0.106	0.00953	1.06			1.06	1.06
<b>TOTAL CBG</b>	0.962	0.106	9.62			9.62	9.62
<b>TOTAL CBN</b>	-	-	-			-	-
<b>TOTAL THC</b>	14.9	1.56	149			149	149
<b>TOTAL THCV</b>	0.167	0.0103	1.67			1.67	1.67



**SERVING MASS (g):** 1.00  
**SERVINGS/UNIT:** 1

"-" Not detected above LOD.

*Deviations from standard operating procedure:*  
None

*Recoveries for all analyte standards:* 90-110%  
*Replicate Uncertainties:* <5% RSD, <20% RPD  
*Sample/Reagent Blanks:* <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC  
 Total CBD = (CBDA x 0.877) + CBD  
 Total CBDV = (CBDVA x 0.867) + CBDV  
 Total CBG = (CBGA x 0.878) + CBG  
 Total CBN = (CBNA x 0.876) + CBN  
 Total THC = (THCA x 0.877) + Δ9-THC  
 Total THCV = (THCVA x 0.867) + THC

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

\* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

*Abbreviations:* DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC



*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31833)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR9903 <b>Lot Number:</b> M00065C13134325150 <b>Batch Number:</b> 5005	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 8g <b>Date Collected:</b> 06/29/2022 <b>Date Received:</b> 06/30/2022
--	---	---	--

**Cultivar (Strain) or Sample Description:** Bacio Gelato **Date Completed:** 07/04/2022

**TERPENOID PROFILE**

**Analysis Date/Time:** 07/01/2022 2351  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	-	-	
Camphene	872	0.0872	█
δ-3-Carene	-	-	
β-Caryophyllene	2250	0.225	█
Caryophyllene oxide	71.7	0.00717	
p-Cymene	-	-	
Eucalyptol	687	0.0687	█
Geraniol	7230	0.723	█
Guaiol	1380	0.138	█
α-Humulene	146	0.0146	
Isopulegol	226	0.0226	
d-Limonene	-	-	
Linalool	122	0.0122	
β-Myrcene	-	-	
cis-Nerolidol	78.8	0.00788	
trans-Nerolidol	108	0.0108	
α-Ocimene	91.4	0.00914	
β-Ocimene	-	-	
α-Pinene	126	0.0126	
β-Pinene	2390	0.239	█
α-Terpinene	-	-	
γ-Terpinene	295	0.0295	
Terpinolene	2280	0.228	█
<b>TOTAL</b>	<b>18400</b>	<b>1.84</b>	



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

"-" Not detected above RL.

**Reporting Limit (µg/g): 18.0**

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31833)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR9903 <b>Lot Number:</b> M00065C13134325150 <b>Batch Number:</b> 5005	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 8g <b>Date Collected:</b> 06/29/2022 <b>Date Received:</b> 06/30/2022
--	---	---	--

**Cultivar (Strain) or Sample Description:** Bacio Gelato **Date Completed:** 07/04/2022

**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 07/02/2022 2337  
**Analyst:** KF

**Method:** LC/MS/MS  
**Instrument:** Shimadzu LC-8050

**Deviations from SOP:**  
None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0180	0.144	0.5	Kresoxim-methyl (143390-89-0)	-	0.0180	0.144	0.4
Acephate (30560-19-1)	-	0.0180	0.144	0.4	Malathion (121-75-5)	-	0.0180	0.144	0.2
Acetaminocyl (57960-19-7)	-	0.0180	0.144	2	Metalaxyl (57837-19-1)	-	0.0180	0.144	0.2
Acetamiprid (135410-20-7)	-	0.0180	0.144	0.2	Methiocarb (2032-65-7)	-	0.0180	0.144	0.2
Aldicarb (116-06-3)	-	0.0180	0.144	0.4	Methomyl (16752-77-5)	-	0.0180	0.144	0.4
Azoxystrobin (131860-33-8)	-	0.0180	0.144	0.2	Methyl parathion (298-0-0)	-	0.0180	0.144	0.2
Bifenazate (149877-41-8)	-	0.0180	0.144	0.2	MGK 264 (113-48-4)	-	0.0180	0.144	0.2
Bifenthrin (82657-04-3)	-	0.0180	0.144	0.2	Myclobutanil (88671-89-0)	-	0.0180	0.144	0.2
Boscalid (188425-85-6)	-	0.0180	0.144	0.4	Naled (300-76-5)	-	0.0180	0.144	0.5
Carbaryl (63-25-2)	-	0.0180	0.144	0.2	Oxamyl (23135-22-0)	-	0.0180	0.144	1
Carbofuran (1563-66-2)	-	0.0180	0.144	0.2	Pacllobutrazol (76738-62-0)	-	0.0180	0.144	0.4
Chlorantraniliprole (800008-45-7)	-	0.0180	0.144	0.2	Permethrins (52645-53-1)	-	0.0180	0.144	0.2
Chlorfenapyr (122453-73-0)	-	0.0180	0.144	1	Phosmet (732-11-6)	-	0.0180	0.144	0.2
Chlorpyrifos (2921-88-2)	-	0.0180	0.144	0.2	Piperonyl butoxide (51-03-6)	-	0.0180	0.144	2
Clofentezine (74115-24-5)	-	0.0180	0.144	0.2	Prallethrins (2331-36-9)	-	0.0180	0.144	0.2
Cyfluthrin (68359-37-5)	-	0.0180	0.144	1	Propiconazole (60207-90-1))	-	0.0180	0.144	0.4
Cypermethrin (52315-07-8)	-	0.0180	0.144	1	Propoxur (114-26-1)	-	0.0180	0.144	0.2
Daminozide (1596-84-5)	-	0.0180	0.144	1	Pyrethrins (8003-34-7)	-	0.0180	0.144	1
DDVP (62-73-7)	-	0.0180	0.144	0.1	Pyridaben (96489-71-3)	-	0.0180	0.144	0.2
Diazinon (333-41-5)	-	0.0180	0.144	0.2	Spinosad (168316-95-8)	-	0.0180	0.144	0.2
Dimethoate (60-51-5)	-	0.0180	0.144	0.2	Spiromesifen (283594-90-1)	-	0.0180	0.144	0.2
Ethoprophos (13194-48-4)	-	0.0180	0.144	0.2	Spirotetramat (203313-25-1)	-	0.0180	0.144	0.2
Etofenprox (80844-07-1)	-	0.0180	0.144	0.4	Spiroxamine (118134-30-8)	-	0.0180	0.144	0.4
Etoxazole (153233-91-1)	-	0.0180	0.144	0.2	Tebuconazole (80443-41-0)	-	0.0180	0.144	0.4
Fenoxycarb (72490-01-8)	-	0.0180	0.144	0.2	Thiacloprid (111988-49-9)	-	0.0180	0.144	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0180	0.144	0.4	Thiamethoxam (153719-23-4)	-	0.0180	0.144	0.2
Fipronil (120068-37-3)	-	0.0180	0.144	0.4	Trifloxystrobin (141517-21-7)	-	0.0180	0.144	0.2
Fonicamid (158062-67-0)	-	0.0180	0.144	1					
Fludioxinil (131341-86-1)	-	0.0180	0.144	0.4					
Hexythiazox (78587-05-0)	-	0.0180	0.144	1					
Imazalil (35554-44-0)	-	0.0180	0.144	0.2					
Imidacloprid (138261-41-3)	-	0.0180	0.144	0.4					



**Color Key**

**RESULT < AL**  
**RESULT > AL**

"DET" detected less than LOQ  
"-." not detected above LOD  
Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.  
Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.  
Action levels are referenced from the State of Arkansas MMJ testing guidelines.  
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.  
*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31833)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR9903 <b>Lot Number:</b> M00065C13134325150 <b>Batch Number:</b> 5005	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 8g <b>Date Collected:</b> 06/29/2022 <b>Date Received:</b> 06/30/2022
<b>Cultivar (Strain) or Sample Description:</b> Bacio Gelato			<b>Date Completed:</b> 07/04/2022

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)**

**Analysis Date/Time:** 07/02/2022 1236 (ICP/OES)      **Method:** ICP/OES      **Deviations from SOP:**  
**Analysis Date/Time:** - (DMA)      **Instrument:** Agilent 720-ES      None  
**Analyst:** KF

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	48.4	91.9	200
Cadmium (Cd)	-	48.4	91.9	200
Lead (Pb)	-	48.4	91.9	500
Mercury (Hg)	-	48.4	91.9	100



*Abbreviations:* ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,  
 DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

**Color Key**



"DET" detected less than LOQ  
 "-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of  
 Felling Analytical Services and Technology (F.A.S.T.), LLC

*Kyle W. Felling*  
 Kyle W. Felling, Ph.D.  
 Laboratory Director



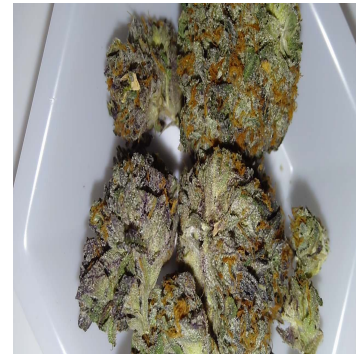
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA31833)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Sample ID:</b> SA31833 <b>Lot Number:</b> M00065C13134325150 <b>Batch Number:</b> 5005	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 8g <b>Date Collected:</b> 06/29/2022 <b>Date Received:</b> 06/30/2022
<b>Cultivar (Strain) or Sample Description:</b> Bacio Gelato			<b>Date Completed:</b> 07/04/2022

**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 07/01/2022 1125      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count	NT	-
Coliforms, Total	Present	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



**Abbreviations:** EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested  
Absent - Not Detected Above RL, Present - Detected Above RL

**Color Key**

**RESULT < AL**

**RESULT > AL**

**Reporting Limit (CFU/g)**  
1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.  
A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

**Disclaimer:** This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

