

**0.5g - Vanilla berry**

**Certificate of Analysis**

<b>Sample ID:</b>	HR20250490844	<b>Received:</b>	4/16/2025	<b>Client:</b>	Bluestone USA
<b>Strain:</b>	Vanilla Berry	<b>Completed:</b>	4/21/2025		
<b>Matrix:</b>	Plant	<b>Type:</b>	Flower - Cured	<b>Batch#:</b>	A2080

**Summary**

Test	Result
Batch	Pass
Foreign Material	Pass
Cannabinoids	Pass
Pesticides	Pass
Microbials	Pass
Mycotoxins	Pass
Heavy Metals	Pass
Residual Solvents	Pass

**Cannabinoids**

Analyte	LOD (% total)	LOQ (% total)	Limit (% total)	Result (% total)	Result (mg/g)
Δ9-THC	0.02000	0.04500	0.30 (Federal)	ND	ND
Δ9-THC-A	0.01500	0.06100		0.24	2.4
CBD	0.01500	0.04500		0.53	5.3
CBD-A	0.01000	0.03100		13.28	132.8
CBG	0.01300	0.03900		ND	ND
CBG-A	0.02900	0.08800		0.32	3.2
CBN	0.01600	0.05000		ND	ND
Δ8-THC	0.01400	0.04200		ND	ND
Exo-THC	0.00330	0.01000		ND	ND
Δ10-THC	0.00330	0.01000		0.00	0.0
THC-OA	0.00330	0.01000		ND	ND
THC-O	0.00330	0.01000		ND	ND
THC-P	0.03600	0.06100		ND	ND
HHC	0.00330	0.01000		ND	ND
Total CBD*				12.18	121.8
Total THC**			0.368 (Georgia)	0.21	2.1

Determination of Cannabinoids by HPLC, HL223

\*Total CBD = CBDa \* 0.877 + CBD

\*\*Total THC = Δ9-THCa \* 0.877 + Δ9-THC ; Total THC Measurement Uncertainty (MU): ± 0.068%

Federal limit for hemp ≤ 0.3% Δ9-THC ; Georgia limit for hemp ≤ 0.3% Total THC + MU

ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. HL105.10-01.

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### Pesticides

Analyte	LOD	LOQ	Limit	Result	Status	Analyte	LOD	LOQ	Limit	Result	Status
	(ppb)	(ppb)	(ppb)	(ppb)			(ppb)	(ppb)	(ppb)	(ppb)	
Abamectin	20	70	70	ND	Pass	Fludioxonil	20	70	70	ND	Pass
Acephate	20	70	70	ND	Pass	Hexythiazox	30	90	90	ND	Pass
Acequinocyl	30	80	80	ND	Pass	Imazalil	30	90	90	ND	Pass
Acetamiprid	20	70	70	ND	Pass	Imidacloprid	30	100	100	ND	Pass
Aldicarb	30	80	80	ND	Pass	Kresoxim Methyl	20	50	50	ND	Pass
Azoxystrobin	20	60	60	ND	Pass	Malathion	20	50	50	ND	Pass
Bifenazate	20	70	70	ND	Pass	Metalaxyl	30	100	100	ND	Pass
Bifenthrin	40	110	100	ND	Pass	Methiocarb	20	60	60	ND	Pass
Boscalid	20	70	70	ND	Pass	Methomyl	20	70	70	ND	Pass
Carbaryl	30	80	80	ND	Pass	Mevinphos	30	80	80	ND	Pass
Carbofuran	30	90	90	ND	Pass	Myclobutanil	20	60	60	ND	Pass
Chlorantraniliprole	20	60	60	ND	Pass	Oxamyl	30	90	90	ND	Pass
Chlordane	30	80	80	ND	Pass	Paclobutrazol	30	90	90	ND	Pass
Chlorpyrifos	10	40	40	ND	Pass	Permethrin	20	70	70	ND	Pass
Coumaphos	20	70	70	ND	Pass	Phosmet (Imidan)	30	90	90	ND	Pass
Cyfluthrin	20	70	70	ND	Pass	Piperonyl butoxide	30	80	80	ND	Pass
Cypermethrin	20	60	60	ND	Pass	Prallethrin	30	80	80	ND	Pass
Daminozide	20	70	70	ND	Pass	Propiconazole	30	90	90	ND	Pass
Diazinon	10	30	30	ND	Pass	Propoxur	30	80	80	ND	Pass
Dichlorvos	30	80	80	ND	Pass	Pyridaben	30	90	90	ND	Pass
Dimethoate	20	50	50	ND	Pass	Spinetoram	20	70	70	ND	Pass
Dimethomorph	30	80	80	ND	Pass	Spiromesifen	30	90	90	ND	Pass
Ethoprophos	30	80	80	ND	Pass	Spirotetramat	20	70	70	ND	Pass
Etofenprox	20	60	60	ND	Pass	Spiroxamine	30	80	80	ND	Pass
Etoazole	20	70	70	ND	Pass	Tebuconazole	30	80	80	ND	Pass
Fenhexamid	30	90	90	ND	Pass	Thiacloprid	20	60	60	ND	Pass
Fenoxycarb	20	70	70	ND	Pass	Thiamethoxam	30	80	80	ND	Pass
Fipronil	30	80	80	ND	Pass	Trifloxystrobin	30	100	100	ND	Pass
Fonicamid	20	70	70	ND	Pass						

We analyze samples by AOAC Official Method 2007.01-Modified; ND = Not Detected; NR = Not Reported; LOD = Limit of Detection; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. HL105.10-01. Tested by LC/MS/MS and GC/MS/MS, HL201.2.

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### Microbials

Analyte	Limit (cfu/g)	Result (cfu/g)	Status
<i>Aspergillus flavus</i>	1	0	Pass
<i>Aspergillus fumigatus</i>	1	0	Pass
<i>Aspergillus niger</i>	1	0	Pass
<i>Aspergillus terreus</i>	1	0	Pass
Bile-tolerant gram negative bacteria	1,000	<10	Pass
Shiga Toxin-producing <i>E. coli</i> (STEC)	1	0	Pass
Viable aerobic bacteria (APC)	100,000	9,900	Pass
Yeast and mold	10,000	5,000	Pass

NR = Not Reported; Aerobic Bacteria (Aerobic Plate Count): FDA BAM Jan 2001, Chapter 3. *E. coli* Plate Count: FDA BAM Jan 2001, Chapter 4. Yeast and Mold Plate Count: AOAC no. 100401 or FDA BAM Jan 2001, Chapter 18. HL105.10-01. Salmonella and STEC: SOP HL 316. *Aspergillus* sp.: SOP HL311.2 (modified) & SOP HL 317.

### Mycotoxins

Analyte	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Result	Status
Aflatoxin B1	1.1	3.4	20	ND	Pass
Aflatoxin B2	1.3	4.0	20	ND	Pass
Aflatoxin G1	2.8	8.4	20	ND	Pass
Aflatoxin G2	1.4	4.2	20	ND	Pass
Ochratoxin A	2.8	8.4	20	ND	Pass

SOP HL 240. Total Aflatoxins = Aflatoxin B1 + Aflatoxin B2 + Aflatoxin G1 + Aflatoxin G2. Each aflatoxin is tested individually. HL241. Tested by HPLC-FID, HL241.

### Foreign Material

Analyte	Limit	Result	Status
Filth	0	ND	Pass
Hair	0	ND	Pass
Insects	0	ND	Pass
Metal/Plastic	0	ND	Pass
Other	0	ND	Pass

Foreign Material: UV light/Microscope SOP HL 323, SOP HL 324.

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**Heavy Metals**

Analyte	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Result (ppb)	Status
Arsenic	59	179	200	ND	Pass
Cadmium	5	14	200	ND	Pass
Lead	55	168	500	ND	Pass
Mercury	5	17	200	ND	Pass

SOP HL 237. Tested by Atomic Fluorescence Spectrometry, HL237.

**Solvents**

Analyte	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Result (ppb)	Status
Butane	10120	30680	800,000	ND	Pass
Ethanol	2730	8270	5,000,000	ND	Pass
Heptane	1730	5250	500,000	<LOQ	Pass
Hexane	3460	10500	100,000	ND	Pass

ND = Not Detected; SOP HL231. Headspace GC-FID.



Ming Li - General Manager

04/15/2025

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