

## CERTIFICATE OF ANALYSIS

**Order Type:** Cannabis  
**Order ID:** OR2019-5378

**Customer ID:** 932  
**Customer Name:** Bud Wise Brands

**Harvest/Extract Lot:** 1  
**Harvest/Extract Batch:** 1

**Cultivar (Strain):** Jager  
**Sample Date:** 11/14/2019

**Lab ID:** SA2019-17165  
**Date Received:** 11/14/2019

**Sample Matrix:** Flower  
**Date Completed:** 11/22/2019

**Remarks:**

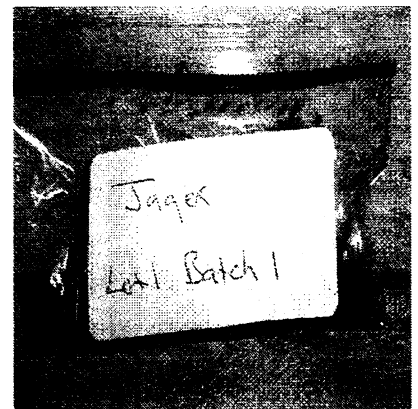
### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 11/18/2019 1539  
**Analyst:** OL

**Method:** 2019-10-18T20:36:50Z  
**Instrument:** Agilent 1100

**Moisture Content (%):** 13.1  
**Water Activity (aw):** -

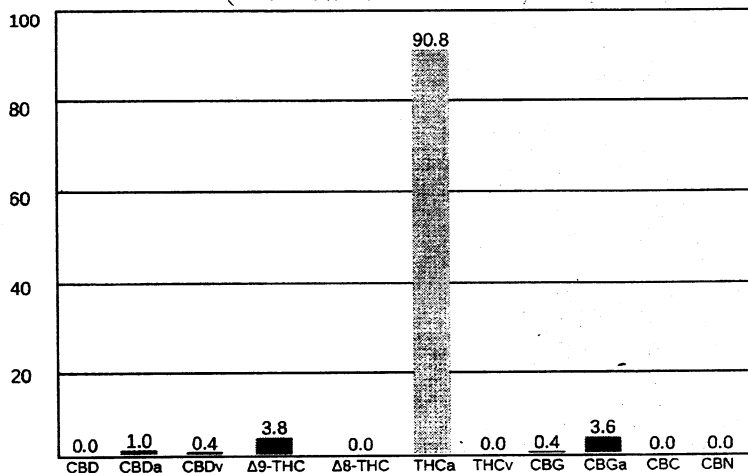
<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	-	-	0.0509	-	-
CBDa	0.255	2.55	0.0509	-	3
CBDv	0.102	1.02	0.0509	-	1.02
Δ9-THC	0.935	9.35	0.0509	-	9
Δ8-THC	-	-	0.0509	-	-
THCa	22.6	226	0.0509	-	226
THCv	-	-	0.0509	-	-
CBC	-	-	0.0509	-	-
CBG	0.0933	0.933	0.0509	-	0.933
CBGa	0.904	9.04	0.0509	-	9
CBN	-	-	0.0509	-	-
<b>TOTAL</b>	<b>24.9</b>	<b>249</b>		<b>-</b>	<b>249</b>
<b>TOTAL THC</b>	<b>20.7</b>	<b>207</b>		<b>-</b>	<b>207</b>
<b>TOTAL CBD</b>	<b>0.224</b>	<b>2</b>		<b>-</b>	<b>2</b>



**UNIT MASS (g):** 1

"-" Not detected above RL.

### Cannabinoid Distribution (% of Total Cannabinoids)



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 THC = (THCa x 0.877) + Δ9-THC  
Total CBD = (CBDa x 0.877) + CBD

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

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

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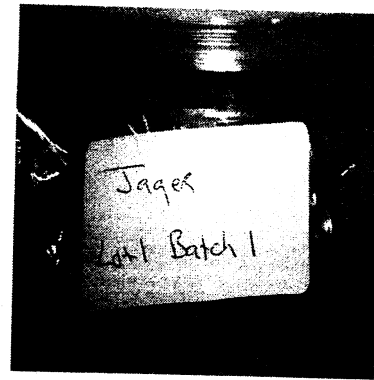
### TERPENOID PROFILE

**Analysis Date/Time:** 11/18/2019 1539  
**Analyst:** OL

**Method:** HS/GC/FID (Internal Method-002)  
**Instrument:** Agilent 6890

**Deviations from SOP:**  
None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	1646	0.165	█
Camphene	194	0.0194	█
δ-3-Carene	-	-	
β-Caryophyllene	6876	0.688	█
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	2960	0.296	█
Isopulegol	616	0.0616	█
d-Limonene	17870	1.79	█
Linalool	2328	0.233	█
β-Myrcene	1836	0.184	█
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	860	0.086	█
α-Pinene	1824	0.182	█
β-Pinene	2086	0.209	█
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
<b>TOTAL</b>	<b>39096</b>	<b>3.91</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 2**

### REPORT OF LABORATORY ANALYSIS

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

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### PESTICIDES PROFILE

**Analysis Date/Time:** 11/18/2019 1539  
**Analyst:** OL

**Method:** LC/MS/MS and GC/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

<u>Pesticide</u>	<u>Result</u> ( $\mu\text{g/g}$ )	<u>Action Level</u> ( $\mu\text{g/g}$ )
Abamectin (71751-41-2)		0.5
Azoxystrobin (131860-33-8)		0.5
Bifenazate* (149877-41-8)		0.5
Etoxazole (153233-91-1)		0.5
Imazalil (35554-44-0)		0.5
Imidacloprid (138261-41-3)		0.5
Malathion (121-75-5)		0.5
Myclobutanil (88671-89-0)		0.5
Permethrins* (52645-53-1)		0.5
Spinosad A (168316-95-8)		0.5
Spinosad D (168316-95-8)		0.5
Spiromesifen (283594-90-1)		0.5
Spirotetramat (203313-25-1)		0.5
Tebuconazole (80443-41-0)		0.5

### Color Key

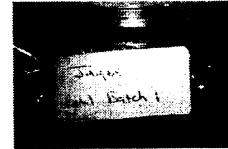
**1/2 AL < RESULT < AL**

**Reporting Limit ( $\mu\text{g/g}$ )**  
1/2 of AL

"-" not detected above reporting limit

"\*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

Permethrins measured as the cumulative residue of the *cis*- and *trans*-permethrin isomers.



**Abbreviations:** LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

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

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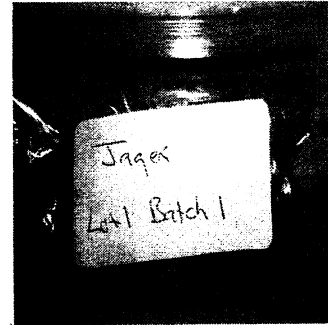
#### MYCOTOXIN PROFILE

**Analysis Date/Time:** 11/18/2019 1539  
**Analyst:** OL

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

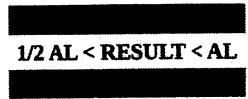
**Deviations from SOP:**  
None

<u>Mycotoxin</u>	<u>Result</u> ( $\mu\text{g}/\text{kg}$ )	<u>Action Level</u> ( $\mu\text{g}/\text{kg}$ )
Aflatoxin B1	[REDACTED]	20
Aflatoxin B2	[REDACTED]	20
Aflatoxin G1	[REDACTED]	20
Aflatoxin G2	[REDACTED]	20
Ochratoxin A	[REDACTED]	20



**Abbreviations:** EC - Escherichia Coli, CFU - Colony-Forming Unit,  
RL - Reporting Limit, AL - Action Level

**Color Key**



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

"-" not detected above reporting limit

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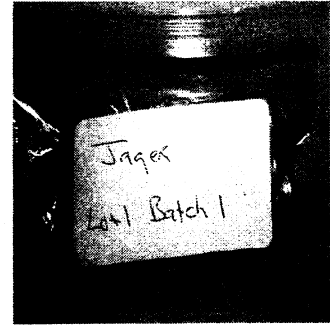
### HEAVY METAL PROFILE

**Analysis Date/Time:** 11/18/2019 1539  
**Analyst:** OL

**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000

**Deviations from SOP:**  
None

<u>Heavy Metal</u>	<u>Result</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
Arsenic (As)	[REDACTED]	400
Cadmium (Cd)	[REDACTED]	440
Lead (Pb)	[REDACTED]	1000
Mercury (Hg)	[REDACTED]	200



**Abbreviations:** ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

#### Color Key

[REDACTED]  
**1/2 AL < RESULT < AL**  
[REDACTED]

**Reporting Limit (µg/kg)**  
50

"-" not detected above reporting limit

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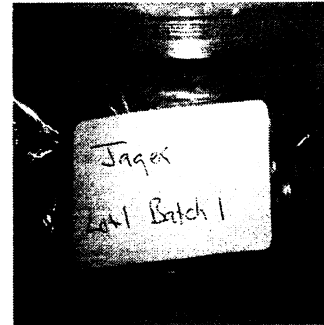
### MICROBIOLOGICAL PROFILE

**Analysis Date/Time:** 11/18/2019 1539  
**Analyst:** OL

**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator

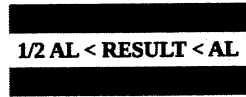
**Deviations from SOP:**  
None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	NT	-
Escherichia Coli (E. Coli)		1
Mold		10000
Yeast		10000
Salmonella spp.		1



**Abbreviations:** EC - Escherichia Coli, CFU - Colony-Forming Unit,  
RL - Reporting Limit, AL - Action Level, NT - Not Tested

**Color Key**



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

"- " not detected above reporting limit

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