## Han's GMO Burger Cured Badder

Sample ID: 2507APO2925.14988 Strain: Hash Burger x Papa Burger Matrix: Concentrates & Extracts Type: Batter/Badder Source Batch #:

LABS

Collected: 07/09/2025 09:19 am Received: 07/09/2025 Completed: 07/14/2025 Batch #: VORTEX-0703-B-HGMOB Harvest Date: 12/18/2024

Client

Io Extracts

Lic. # 00000067ESBS89254298

Lot #: VORTEX-0703-B-HGMOB Production/Manufacture Date: 07/03/2025 Production/Manufacture Method: Butane



#### Summary Test Date Tested Result Batch **Pass** Cannabinoids 07/10/2025 Complete Terpenes 07/11/2025 Complete Residual Solvents 07/11/2025 **Pass** Microbials 07/14/2025 **Pass** Mycotoxins 07/10/2025 Pass **Pesticides** 07/10/2025 Pass

07/10/2025

## Cannabinoids by SOP-6

Complete

Pass

76.8049 %	0.1465 %	87.3487 %	4.9436%
Total THC	Total CBD	Total Cannabinoids (Q3)	Total Terpenes (Q3)

Heavy Metals

Analyte	LOD	LOQ	Result	Result
	%	%	%	mg/g
THCa		0.1000	73.2412	732.412
Δ9-ΤΗС		0.1000	12.5724	125.724
Δ8-THC		0.1000	ND	ND
THCV		0.1000	0.1060	1.060
CBDa		0.1000	0.1671	1.671
CBD		0.1000	ND	ND
CBDVa		0.1000	ND	ND
CBDV		0.1000	ND	ND
CBN		0.1000	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
CBGa		0.1000	0.9609	9.609
CBG		0.1000	0.3011	3.011
CBC		0.1000	ND	ND
Total THC			76.8049	768.0490
Total CBD			0.1465	1.4655
Total			87.3487	873.4874

Date Tested: 07/10/2025 07:00 am



thethams Sect Anthony Settanni

Lab Director 07/14/2025

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Client

Io Extracts Lic. # 00000067ESBS89254298

Lot #: VORTEX-0703-B-HGMOB Production/Manufacture Date: 07/03/2025 Production/Manufacture Method: Butane

#### Pesticides by SOP-22

**Pass** 

Analyte	LOQ	Limit	Result	Q	Status	Analyte	LOQ	Limit	Result	Q	Status
	PPM	PPM	PPM				PPM	PPM	PPM		
Abamectin	0.2500	0.5000	ND		Pass	Hexythiazox	0.5000	1.0000	ND		Pass
Acephate	0.2000	0.4000	ND		Pass	lmazalil	0.1000	0.2000	ND		Pass
Acetamiprid	0.1000	0.2000	ND		Pass	Imidacloprid	0.2000	0.4000	ND		Pass
Aldicarb	0.2000	0.4000	ND		Pass	Kresoxim Methyl	0.2000	0.4000	ND		Pass
Azoxystrobin	0.1000	0.2000	ND		Pass	Malathion	0.1000	0.2000	ND		Pass
Bifenazate	0.1000	0.2000	ND		Pass	Metalaxyl	0.1000	0.2000	ND		Pass
Bifenthrin	0.1000	0.2000	ND		Pass	Methiocarb	0.1000	0.2000	ND		Pass
Boscalid	0.2000	0.4000	ND		Pass	Methomyl	0.2000	0.4000	ND		Pass
Carbaryl	0.1000	0.2000	ND		Pass	Myclobutanil	0.1000	0.2000	ND		Pass
Carbofuran	0.1000	0.2000	ND		Pass	Naled	0.2500	0.5000	ND		Pass
Chlorantraniliprole	0.1000	0.2000	ND		Pass	Oxamyl	0.5000	1.0000	ND		Pass
Chlorfenapyr	0.5000	1.0000	ND		Pass	Paclobutrazol	0.2000	0.4000	ND		Pass
Chlorpyrifos	0.1000	0.2000	ND		Pass	Permethrins	0.1000	0.2000	ND		Pass
Clofentezine	0.1000	0.2000	ND		Pass	Phosmet	0.1000	0.2000	ND		Pass
Cyfluthrin	0.5000	1.0000	ND		Pass	Piperonyl	1.0000	2.0000	ND		Pass
Cypermethrin	0.5000	1.0000	ND		Pass	Butoxide	0.4000	0.0000	NID		
Daminozide D: :	0.5000	1.0000	ND		Pass	Prallethrin	0.1000	0.2000	ND		Pass
Diazinon	0.1000	0.2000	ND		Pass	Propiconazole	0.2000	0.4000	ND		Pass
Dichlorvos	0.0500	0.1000	ND		Pass	Propoxur	0.1000	0.2000	ND		Pass
Dimethoate	0.1000	0.2000	ND ND		Pass	Pyrethrins	0.5000	1.0000	ND		Pass
Ethoprophos	0.1000	0.2000	ND ND		Pass	Pyridaben	0.1000	0.2000	ND ND		Pass
Etofenprox Etoxazole	0.2000	0.2000	ND ND		Pass Pass	Spinosad	0.1000	0.2000	ND		Pass Pass
Fenoxycarb	0.1000	0.2000	ND ND		Pass	Spiromesifen Spirotetramat	0.1000	0.2000	ND ND		Pass
Fenoxycard	0.1000	0.4000	ND ND		Pass	Spiroxamine	0.1000	0.4000	ND ND		Pass
Fipronil	0.2000	0.4000	ND		Pass	Tebuconazole	0.2000	0.4000	ND ND		Pass
Flonicamid	0.2000	1.0000	ND		Pass	Thiacloprid	0.2000	0.2000	ND ND		Pass
Fludioxonil	0.2000	0.4000	ND		Pass	Thiaciophia	0.1000	0.2000	ND ND		Pass
i iddiOXUIIII	0.2000	0.4000	שוו		газэ	Trifloxystrobin	0.1000	0.2000	ND ND		Pass
						II IIIOXYSLI ODIII	0.1000	0.2000	ND		гаээ

Date Tested: 07/10/2025 07:00 am



Stathamy Section Anthony Settanni

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07/14/2025 ARIZONA DEPARTMENT OF HEALTH SERVICES' WARNING:
Marijuana use can be addictive and can impair an individual's ability to drive a motor vehicle or operate heavy machinery. Marijuana smoke contains carcinogens and can lead to an increased risk for cancer, tachycardia, hypertension, heart attack, and lung infection. Marijuana use may affect the health of a pregnant woman and the unborn child. Using marijuana during pregnancy could cause birth defects or other health issues to your unborn child;
KEEP OUT OF REACH OF CHILDREN.
The product associated with the COA has been tested by Apollo Labs using validated state certified testing methodologies as required by Arizona state law. Values reported herein relate only to the specific sample of

Lab Director

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## Han's GMO Burger Cured Badder

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Client

Io Extracts Lic. # 00000067ESBS89254298

Lot #: VORTEX-0703-B-HGMOB Production/Manufacture Date: 07/03/2025 Production/Manufacture Method: Butane

N. 41	D.
Microbials	Pass

Analyte	Limit	Result	Status	Q
Salmonella SPP by QPCR: SOP-15	Detected/Not Detected in 1g	ND	Pass	
Aspergillus Flavus Aspergillus Fumigatus or Aspergillus Niger by QPCR: SOP-14	Detected/Not Detected in 1g	ND	Pass	
Aspergillus Terreus by QPCR: SOP-14	Detected/Not Detected in 1g	ND	Pass	

Analyte	LOQ	Limit	Result	Status	Q
	CFU/g	CFU/g	CFU/g		<u>.</u>
E. Coli by traditional plating: SOP-13	10.0	100.0	< 10 CFU/g	Pass	

Date Tested: 07/14/2025 12:00 am

## Mycotoxins by SOP-22

Pass

Analyte	LOD	LOQ	Limit	Units	Status	Q
	μg/kg	µg/kg	μg/kg	μg/kg		
B1	5	10	20	ND	Pass	
B2	5	10	20	ND	Pass	
G1	5	10	20	ND	Pass	
G2	5	10	20	ND	Pass	
Total Aflatoxins	5	10	20	ND	Pass	
Ochratoxin A	5	10	20	ND	Pass	

Date Tested: 07/10/2025 07:00 am

#### Heavy Metals by SOP-21

**Pass** 

Analyte	LOD	LOQ	Limit	Units	Status	Q
	PPM	PPM	PPM	PPM		
Arsenic	0.1000	0.1330	0.4000	ND	Pass	
Cadmium	0.1000	0.1330	0.4000	ND	Pass	
Lead	0.2500	0.3330	1.0000	ND	Pass	
Mercury	0.0500	0.0660	0.2000	ND	Pass	

Date Tested: 07/10/2025 07:00 am



Stathams Section Anthony Settanni Lab Director 07/14/2025

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## Residual Solvents by SOP-3

Analyte	LOQ	Limit	Result	Status	Q
•	PPM	PPM	PPM		Pass
Acetone	381.0000	1000.0000	ND	Pass	
Acetonitrile	154.0000	410.0000	ND	Pass	
Benzene	1.0000	2.0000	ND	Pass	
Butanes	1914.0000	5000.0000	ND	Pass	
Chloroform	24.0000	60.0000	ND	Pass	
Dichloromethane	231.0000	600.0000	ND	Pass	
Ethanol	1910.0000	5000.0000	ND	Pass	
Ethyl-Acetate	1907.0000	5000.0000	ND	Pass	
Ethyl-Ether	1901.0000	5000.0000	ND	Pass	
n-Heptane	1892.0000	5000.0000	ND	Pass	
Hexanes	115.0000	290.0000	ND	Pass	
Isopropanol	1915.0000	5000.0000	ND	Pass	
Isopropyl-Acetate	1908.0000	5000.0000	ND	Pass	
Methanol	1141.0000	3000.0000	ND	Pass	
Pentane	1923.0000	5000.0000	ND	Pass	
Toluene	343.0000	890.0000	ND	Pass	
Xylenes + Ethyl Benzene	841.0000	2170.0000	ND	Pass	

Date Tested: 07/11/2025 07:00 am



Mathamy Setter Anthony Settanni Lab Director

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Client

Io Extracts Lic. # 00000067ESBS89254298

Lot #: VORTEX-0703-B-HGMOB Production/Manufacture Date: 07/03/2025 Production/Manufacture Method: Butane

## **Terpenes**

Analyte	LOO	Result	Result	Q	An
ruidiyee	%	%	mg/g		
D,L-Limonene	0.0010	1.4339	14.339	Q3	Cit
β-Myrcene	0.0010	1.2974	12.974	Q3	Eu
β-Caryophyllene	0.0010	0.6839	6.839	Q3	Fei
α-Humulene	0.0010	0.5732	5.732	Q3	у-Т
Endo-Fenchyl Alcohol	0.0010	0.2088	2.088	Q3	Ge
β-Pinene	0.0010	0.1920	1.920	Q3	Ge
α-Pinene	0.0010	0.1416	1.416	Q3	Gu
Linalool	0.0010	0.1349	1.349	Q3	Iso
α-Terpineol	0.0010	0.1269	1.269	Q3	Iso
Caryophyllene Oxide	0.0010	0.0654	0.654	Q3	m-
Camphene	0.0010	0.0363	0.363	Q3	Me
Isoborneol	0.0010	0.0290	0.290	Q3	L-N
Terpinolene	0.0010	0.0203	0.203	Q3	Ne
3-Carene	0.0010	ND	ND	Q3	No
α-Bisabolol	0.0010	ND	ND	Q3	o,p
α-Cedrene	0.0010	ND	ND	Q3	Oc
α-Phellandrene	0.0010	ND	ND	Q3	Ph
α-Terpinene	0.0010	ND	ND	Q3	Pip
α-Thujone	0.0010	ND	ND	Q3	Pu
trans-β-Farnesene	0.0010	ND	ND	Q3	Sal
D,L-Borneol	0.0010	ND	ND	Q3	Sal
Camphor	0.0010	ND	ND	Q3	Sat
Carvacrol	0.0010	ND	ND	Q3	Tei
Carvone	0.0010	ND	ND	Q3	Th
Cedrol	0.0010	ND	ND	Q3	tra
cis-Citral	0.0010	ND	ND	Q3	tra
cis-Farnesol	0.0010	ND	ND	Q3	tra
cis-Nerolidol	0.0010	ND	ND	Q3	Va
cis-beta-Ocimene	0.0010	ND	ND	Q3	Ve

Analyte	LOQ	Result	Result	Q	
	%	%	mg/g		
Citronellol	0.0010	ND	ND	Q3	
Eucalyptol	0.0010	ND	ND	Q3	
Fenchone	0.0010	ND	ND	Q3	
y-Terpinene	0.0010	ND	ND	Q3	
Geraniol	0.0010	ND	ND	Q3	
Geranyl Acetate	0.0010	ND	ND	Q3	
Guaiol	0.0010	ND	ND	Q3	
Isobornyl Acetate	0.0010	ND	ND	Q3	
Isopulegol	0.0010	ND	ND	Q3	
m-Cymene	0.0010	ND	ND	Q3	
Menthol	0.0010	ND	ND	Q3	
L-Menthone	0.0010	ND	ND	Q3	
Nerol	0.0010	ND	ND	Q3	
Nootkatone	0.0010	ND	ND	Q3	
o,p-Cymene	0.0010	ND	ND	Q3	
Octyl Acetate	0.0010	ND	ND	Q3	
Phytane	0.0010	ND	ND	Q3	
Piperitone	0.0010	ND	ND	Q3	
Pulegone	0.0010	ND	ND	Q3	
Sabinene	0.0010	ND	ND	Q3	
Sabinene Hydrate	0.0010	ND	ND	Q3	
Safranal	0.0010	ND	ND	Q3	
Terpinen-4-ol	0.0010	ND	ND	Q3	
Thymol	0.0010	ND	ND	Q3	
trans-Citral	0.0010	ND	ND	Q3	
trans-Nerolidol	0.0010	ND	ND	Q3	
trans-beta-Ocimene	0.0010	ND	ND	Q3	
Valencene	0.0010	ND	ND	Q3	
Verbenone	0.0010	ND	ND	Q3	
Total		4.9436	49.436		

#### **Primary Aromas**









Cinnamon





Date Tested: 07/11/2025 12:00 am Terpenes analysis is not regulated by AZDHS.



thethams Sect Anthony Settanni

Lab Director 07/14/2025

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Lot #: VORTEX-0703-B-HGMOB Production/Manufacture Date: 07/03/2025 Production/Manufacture Method: Butane

# **Qualifiers Definitions**

Qualifier Notation	Qualifier Description
l1	The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance criteria in subsection (L)(1) with respect to the reference spectra, indicating interference
L1	When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits in subsection $(K)(2)(c)$ , but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample
M1	The recovery from the matrix spike in subsection (K)(4) was: a. High, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
M2	The recovery from the matrix spike in subsection (K)(4) was: b. Low, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
М3	The recovery from the matrix spike in subsection (K)(4) was: c. Unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample in subsection (K)(2) was within acceptance criteria
R1	The relative percent difference for the laboratory control sample and duplicate exceeded the limit in subsection $(K)(3)$ , but the recovery in subsection $(K)(2)$ was within acceptance criteria
V1	The recovery from continuing calibration verification standards exceeded the acceptance limits in subsection (J) (1)(b), but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample
Q2	The sample is heterogeneous, and sample homogeneity could not be readily achieved using routine laboratory practices – Used to denote that the sample as-received could not be fully pre-homogenized in packaging prior to microbiology analysis
Q3	Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317

## Notes and Addenda:





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# **Customer Supplied Information:**

Vortex - Other Information

Using marijuana during pregnancy could cause birth defects or other health issues to your unborn child. Cultivated by: E&I Wholesale - M&T Retail Facility 1, LLC (Vortex) (00000101ESZO30906924) Manufactured by: Arizona Golden Leaf Wellness (00000067ESBS89254298) Distributed through: Arizona Golden Leaf Wellness (00000067ESBS89254298, 00000077DCPS00216601) https://azcarecheck.azdhs.gov/s/





Brvant Kearl Chief Scientific Officer 07/14/2025

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