

Batch Labs

2815 S 5th Ct
Milwaukee, WI 53207
(262) 364-6940

Laboratory Number: 2211091-02

Batch #: 8F971B

Sample Received: 11/23/2022; Report Created: 12/1/2022

Batch Gold Reserve Gummies

Ingestible

Sample Image



Cannabinoid (HPLC) Analyzed: 11/30/22 By: ZEN

Compound	LOQ %	mg/g	mg/unit	%
THC-A	0.01081	ND	ND	ND
delta 9-THC	0.01081	0.3129	1.095	0.03129
delta 8-THC	0.01081	ND	ND	ND
THC-V	0.01081	ND	ND	ND
CBG-A	0.01081	ND	ND	ND
CBD-A	0.01081	ND	ND	ND
CBD	0.10811	15.004	52.51	1.5004
CBD-V	0.01081	ND	ND	ND
CBN	0.01081	ND	ND	ND
CBG	0.01081	8.9974	31.49	0.89974
CBC	0.01081	0.3355	1.174	0.03355

0.3129 mg/g
1.10 mg/unit
0.03129 %

Total THC

15.0040 mg/g
52.51 mg/unit
1.50040 %

Total CBD

24.6500 mg/g
86.27 mg/unit
2.46500 %

Total Cannabinoids

Total THC = THCa * 0.877 + delta 9-THC; Total CBD = CBDA * 0.877 + CBD

47.96 : 1

CBD to THC Ratio

Not Tested

Water Activity

Not Tested

Moisture

Terpenes (GCMS-MS) Analyzed: By:

Compound	mg/g	%
alpha-Bisabolol	NT	NT
(-)-Borneol and (+)-Borneol	NT	NT
Camphene	NT	NT
Camphor	NT	NT
beta-Caryophyllene	NT	NT
trans-Caryophyllene	NT	NT
Caryophyllene Oxide	NT	NT
alpha-Cedrene	NT	NT
Cedrol	NT	NT
Endo-fenchyl Alcohol	NT	NT
Eucalyptol	NT	NT
Fenchone	NT	NT
Geraniol	NT	NT
Geranyl acetate	NT	NT
Guaial	NT	NT
Hexahydrothymol	NT	NT
alpha-Humulene	NT	NT
Isoborneol	NT	NT
Isopulegol	NT	NT
Limonene	NT	NT
Linalool	NT	NT
p-Mentha-1,5-diene	NT	NT
beta-Myrcene	NT	NT
trans-Nerolidol	NT	NT
Ocimene	NT	NT
alpha-Pinene	NT	NT
beta-Pinene	NT	NT
Pulegone	NT	NT
Sabinene	NT	NT
Sabinene Hydrate	NT	NT
gamma-Terpinene	NT	NT
alpha-Terpinene	NT	NT
3-Carene	NT	NT
Terpineol	NT	NT
Terpinolene	NT	NT
Valencene	NT	NT
Nerol	NT	NT
cis-Nerolidol	NT	NT
Total Terpenes	NT	NT

Safety

Not Tested

Pesticides

Not Tested

Microbials

Not Tested

Residual Solvents

Not Tested

Metals

Not Tested

pH

RL = Reporting Limit
NA = Not Applicable
NT = Not Tested
ND = Non Detected
LOQ = Limit of Quantification


Erin Polly
Technical Laboratory Director



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Certificate of Analysis

TESTED
BATCH

N63W22595 Main St
Sussex, WI, 53089, US
Telephone: (262) 364-6940
Email: griff@helloworldbatch.com

Sample : KN20907013-002
Harvest/Lot ID: 220722

Batch# : 01
Sampled : 08/22/22
Ordered : 08/22/22

Sample Size Received : 15 gram
Total Batch Size : N/A
Completed : 09/19/22 Expires: 09/19/23
Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTHIZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						

Analyzed by:
2803

Weight:
0.5085g

Extraction date:
09/13/22 18:44:18

Extracted by:
2803

Analysis Method : SOP.T.30.060, SOP.T.40.060

Analytical Batch : KN002892PES

Instrument Used : E-SHI-125 Pesticides

Running on : N/A

Dilution : 0.01

Reagent : N/A

Consumables : N/A

Pipette : N/A

Reviewed On : 09/16/22 16:29:52

Batch Date : 09/13/22 18:16:18

Pesticide analysis is performed using LC-MS/MS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits.



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Sussex, WI, 53089, US
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Email: griff@hellobatch.com

Sample : KN20907013-002
Harvest/Lot ID: 220722

Batch# : 01
Sampled : 08/22/22
Ordered : 08/22/22

Sample Size Received : 15 gram
Total Batch Size : N/A
Completed : 09/19/22 Expires: 09/19/23
Sample Method : SOP Client Method

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Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND

Analyzed by:
N/A

Weight:
N/A

Extraction date:
N/A

Extracted by:
N/A

Analysis Method : SOP.T.40.032
Analytical Batch : KN002878SOL
Instrument Used : E-SHI-106 Residual Solvents
Running on : N/A

Reviewed On : 09/19/22 11:14:48
Batch Date : 09/09/22 10:06:59

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Residual solvents analysis is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). *Based on FL action limits.



Certificate of Analysis

TESTED
BATCH

 N63W22595 Main St
 Sussex, WI, 53089, US
 Telephone: (262) 364-6940
 Email: griff@helloworldbatch.com

 Sample : KN20907013-002
 Harvest/Lot ID: 220722

 Batch# : 01
 Sampled : 08/22/22
 Ordered : 08/22/22

 Sample Size Received : 15 gram
 Total Batch Size : N/A
 Completed : 09/19/22 Expires: 09/19/23
 Sample Method : SOP Client Method

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Microbial
PASSED

Mycotoxins
PASSED

Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	

Analyzed by: 2657 Weight: 1.0021g Extraction date: 09/08/22 14:13:01 Extracted by: 2657

 Analysis Method : SOP.T.40.043
 Analytical Batch : KN002867MIC
 Instrument Used : Micro E-HEW-069
 Running on : N/A

 Reviewed On : 09/09/22 17:17:07
 Batch Date : 09/07/22 10:17:35

 Dilution : N/A
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02

Analyzed by: 2803 Weight: 0.5085g Extraction date: 09/13/22 18:44:18 Extracted by: 2803

 Analysis Method : SOP.T.30.060, SOP.T.40.060
 Analytical Batch : KN002909MYC
 Instrument Used : E-SHI-125 Mycotoxins
 Running on : N/A

 Reviewed On : 09/16/22 16:46:18
 Batch Date : 09/16/22 16:31:20

 Dilution : 0.01
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

 Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCM/MS. LOQ 5.0 ppb).
 *Based on FL action limits.

Heavy Metals
PASSED

Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by: 138, 12 Weight: 0.2548g Extraction date: 09/09/22 14:46:47 Extracted by: 138

 Analysis Method : SOP.T.40.050, SOP.T.30.052
 Analytical Batch : KN002871HEA
 Instrument Used : Metals ICP/MS
 Running on : N/A

 Reviewed On : 09/09/22 16:44:29
 Batch Date : 09/07/22 14:00:07

 Dilution : 50
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



Certificate of Analysis

TESTED
BATCH

 N63W22595 Main St
 Sussex, WI, 53089, US
 Telephone: (262) 364-6940
 Email: griff@hellolabatch.com

 Sample : KN20907013-002
 Harvest/Lot ID: 220722

 Batch# : 01
 Sampled : 08/22/22
 Ordered : 08/22/22

 Sample Size Received : 15 gram
 Total Batch Size : N/A
 Completed : 09/19/22 Expires: 09/19/23
 Sample Method : SOP Client Method

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**Filth/Foreign
Material**
PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by: 2657	Weight: 0.7115g	Extraction date: 09/08/22 14:16:35	Extracted by: 2657
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : KN002868FIL

Instrument Used : E-AMS-138 Microscope

Running on : N/A

Reviewed On : 09/08/22 14:23:25

Batch Date : 09/07/22 10:21:33

Dilution : N/A

Reagent : N/A

Consumables : N/A

Pipette : N/A

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is used for inspection.



Certificate of Analysis

TESTED
BATCH

 N63W22595 Main St
 Sussex, WI, 53089, US
 Telephone: (262) 364-6940
 Email: griff@helloworldbatch.com

 Sample : KN20907013-002
 Harvest/Lot ID: 220722

 Batch# : 01
 Sampled : 08/22/22
 Ordered : 08/22/22

 Sample Size Received : 15 gram
 Total Batch Size : N/A
 Completed : 09/19/22 Expires: 09/19/23
 Sample Method : SOP Client Method

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Environmental PASSED

Analyte	Result	Pass/Fail	Action Level
ASPERGILLUS FLAVUS (ENV)	Not Present	TESTED	
BILE TOLERANT GRAM NEGATIVE HIGH	Not Present	TESTED	
TOTAL AEROBIC BACTERIA HIGH	Not Present	TESTED	
TOTAL ENTEROBACTERIACEAE HIGH	Not Present	TESTED	
AEROMONAS HYDROPHILIA & SALMONICIDA	Not Present	TESTED	
BACILLUS GROUP 1	Not Present	TESTED	
BACILLUS GROUP 2	Not Present	TESTED	
CAMPYLOBACTER SPP.	Not Present	TESTED	
ESCHERICHIA COLI/SHIGELLA SPP. (ENV)	Not Present	TESTED	
LISTERIA SPP.	Not Present	TESTED	
PSEUDOMONAS AERUGINOSA (ENV)	Not Present	TESTED	
PSEUDOMONAS SPP.	Not Present	TESTED	
SALMONELLA ENTERICA/ENTEROBACTER SPP.	Not Present	TESTED	
STAPHYLOCOCCUS AUREUS (ENV)	Not Present	TESTED	
TOTAL YEAST & MOLD HIGH	Not Present	TESTED	
ALTERNARIA SPP.	Not Present	TESTED	
ASPERGILLUS FUMIGATUS (ENV)	Not Present	TESTED	
ASPERGILLUS NIGER (ENV)	Not Present	TESTED	
ASPERGILLUS TERREUS (ENV)	Not Present	TESTED	
BOTRYTIS SPP.	Not Present	TESTED	
CAN. ALB/TROP/DUB	Not Present	TESTED	
CAN. GLAB/SACH & KLUV SPP.	Not Present	TESTED	
CANDIDA ALBICANS	Not Present	TESTED	
CLADOSPORIUM SPP.	Not Present	TESTED	
FUSARIUM OXYSPORUM	Not Present	TESTED	
FUSARIUM SOLANI	Not Present	TESTED	
GOLOVINOMYCES 1J2	Not Present	TESTED	
MUCOR SPP.	Not Present	TESTED	
PEN & ASP SPP.	Not Present	TESTED	
PENICILLIUM SPP.	Not Present	TESTED	
SACCHAROMYCES SPP.	Not Present	TESTED	

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
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Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : N/A

Instrument Used : N/A

Running on : N/A

Reviewed On : 09/19/22 11:24:52

Batch Date : N/A