

**Certificate of Analysis for**

Balanced Health Botanicals
1500 W Hampden Ave, Unit 5G
Sheridan, CO 80110

Received: 8/28/2023 @ 23.8 °C
Report ID: 2308C08

Sample ID: 2308C08-001 4232580 - BSO Relax Gummies

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 08/28/23

Aerobic Plate Count < 10 CFU/g

Asp.1: Aspergillus via AOAC PTM 022103 (Gene-Up® PCR) Analyzed 08/29/23

Aspergillus flavus	Negative	/1 g	Aspergillus fumigatus	Negative	/1 g
Aspergillus niger	Negative	/1 g	Aspergillus terreus	Negative	/1 g

aW.2: aW via AquaLab Tunable Diode Laser Methods Analyzed 08/29/23

Water Activity 0.637 aW

CBD.1: Cannabinoids via MBL-HPLC2 Analyzed 08/30/23

Cannabichromene (CBC)	< 0.200	mg/g	Cannabicitran (CBT)	< 0.200	mg/g
Cannabidiol (CBD)	10.4	mg/g	Cannabidiolic Acid (CBDA)	< 0.100	mg/g
Cannabidivarin (CBDV)	< 0.100	mg/g	Cannabigerol (CBG)	0.333	mg/g
Cannabinol (CBN)	< 0.100	mg/g	Delta - 9 THC (THC)	< 0.100	mg/g
Delta 9 - Tetrahydrocannabinolic Acid (THCA-A)	< 0.100	mg/g	Potential CBD	1.04	%
Potential THC	< 0.010	%	Tetrahydrocannabivarin (THCV)	< 0.100	mg/g

CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 08/28/23

Total Coliform Bacteria < 10 CFU/g

ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 08/28/23

Escherichia coli < 10 CFU/g

ICPMS.1: Metals via FDA - EAM:2008 (ICP/MS) Analyzed 08/28/23

Arsenic (As)	< 0.020	mg/kg (ppm)	Cadmium (Cd)	< 0.010	mg/kg (ppm)
Lead (Pb)	0.031	mg/kg (ppm)	Mercury (Hg)	< 0.005	mg/kg (ppm)

Myc.1: Mycotoxins by LC-MS Analyzed 08/29/23

Aflatoxin B1	< 10	µg/kg (ppb)	Aflatoxin B2	< 10	µg/kg (ppb)
Aflatoxin G1	< 10	µg/kg (ppb)	Aflatoxin G2	< 10	µg/kg (ppb)
Ochratoxin A	< 20	µg/kg (ppb)			



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Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins) Analyzed 08/29/23

Abamectin (B1a + B1b)	< 50	µg/kg (ppb)	Acephate	< 25	µg/kg (ppb)
Acequinocyl	< 10	µg/kg (ppb)	Acetamiprid	< 10	µg/kg (ppb)
Aldicarb	< 10	µg/kg (ppb)	Azoxystrobin	< 10	µg/kg (ppb)
Bifenazate	< 50	µg/kg (ppb)	Bifenthrin	< 10	µg/kg (ppb)
Boscalid	< 50	µg/kg (ppb)	Carbaryl	< 25	µg/kg (ppb)
Carbofuran	< 25	µg/kg (ppb)	Chlorantraniliprole	< 25	µg/kg (ppb)
Chlorfenapyr	< 100	µg/kg (ppb)	Chlorpyrifos	< 10	µg/kg (ppb)
Clofentezine	< 10	µg/kg (ppb)	Coumaphos	< 10	µg/kg (ppb)
Cyfluthrin (Baythroid)	< 50	µg/kg (ppb)	Cypermethrin	< 50	µg/kg (ppb)
Daminozide	< 25	µg/kg (ppb)	Diazinon	< 10	µg/kg (ppb)
Dibrom (Naled)	< 50	µg/kg (ppb)	Dichlorvos	< 50	µg/kg (ppb)
Dimethoate	< 25	µg/kg (ppb)	Dimethomorph	< 25	µg/kg (ppb)
Ethofenprox	< 10	µg/kg (ppb)	Ethoprophos (Propfos)	< 25	µg/kg (ppb)
Etoxazole	< 25	µg/kg (ppb)	Fenhexamid	< 50	µg/kg (ppb)
Fenoxycarb	< 10	µg/kg (ppb)	Fenpyroximate	< 25	µg/kg (ppb)
Fipronil	< 10	µg/kg (ppb)	Fonicamid	< 25	µg/kg (ppb)
Fludioxonil	< 25	µg/kg (ppb)	Hexythiazox	< 10	µg/kg (ppb)
Imazalil	< 50	µg/kg (ppb)	Imidacloprid	< 10	µg/kg (ppb)
Kresoxim Methyl	< 10	µg/kg (ppb)	Malathion	< 100	µg/kg (ppb)
Metalaxyl	< 25	µg/kg (ppb)	Methiocarb	< 50	µg/kg (ppb)
Methomyl	< 25	µg/kg (ppb)	Oxamyl	< 10	µg/kg (ppb)
Paclobutrazol	< 25	µg/kg (ppb)	Permethrins	< 10	µg/kg (ppb)
Phosdrin (Mevinphos)	< 50	µg/kg (ppb)	Phosmet	< 10	µg/kg (ppb)
Piperonyl Butoxide	< 10	µg/kg (ppb)	Prallethrin	< 25	µg/kg (ppb)
Propiconazol	< 25	µg/kg (ppb)	Propoxur	< 25	µg/kg (ppb)
Pyrethrins	< 50	µg/kg (ppb)	Pyridaben	< 10	µg/kg (ppb)
Spinetoram	< 25	µg/kg (ppb)	Spinosad A	< 10	µg/kg (ppb)
Spinosad D	< 50	µg/kg (ppb)	Spiromesifen	< 25	µg/kg (ppb)
Spirotetramat	< 25	µg/kg (ppb)	Spiroxamine	< 25	µg/kg (ppb)
Systhane (Myclobutanil)	< 50	µg/kg (ppb)	Tebuconazol (Folicur)	< 25	µg/kg (ppb)
Thiacloprid	< 25	µg/kg (ppb)	Thiamethoxam	< 25	µg/kg (ppb)
Trifloxystrobin	< 10	µg/kg (ppb)			



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ResSolv.2: Residual Solvents by Headspace GC/MS (VF-624MS)

Analyzed 08/28/23

(+/-)-2-Butanol	< 10	mg/kg (ppm)	1,1-Dichloroethene	< 5	mg/kg (ppm)
1,2-Dichloroethane	< 2	mg/kg (ppm)	1,2-Dimethoxyethane	< 10	mg/kg (ppm)
1,4-Dioxane	< 25	mg/kg (ppm)	1-Butanol	< 50	mg/kg (ppm)
1-Pentanol	< 100	mg/kg (ppm)	1-Propanol	< 100	mg/kg (ppm)
2,2-Dimethylbutane	< 25	mg/kg (ppm)	2,3-Dimethylbutane	< 25	mg/kg (ppm)
2-Ethoxyethanol	< 25	mg/kg (ppm)	2-Methoxyethanol	< 50	mg/kg (ppm)
2-Methyl-1-propanol	< 100	mg/kg (ppm)	2-Methylbutane (Isopentane)	< 75	mg/kg (ppm)
2-Methylpentane	< 25	mg/kg (ppm)	2-Propanol	< 50	mg/kg (ppm)
3-Methyl-1-Butanol	< 100	mg/kg (ppm)	3-Methylpentane	< 25	mg/kg (ppm)
Acetone	< 50	mg/kg (ppm)	Acetonitrile	< 50	mg/kg (ppm)
Anisole	< 50	mg/kg (ppm)	Benzene	< 1	mg/kg (ppm)
Butyl Acetate	< 50	mg/kg (ppm)	Chloroform	< 10	mg/kg (ppm)
Cumene	< 100	mg/kg (ppm)	Cyclohexane	< 50	mg/kg (ppm)
Diethyl ether	< 50	mg/kg (ppm)	Ethanol	808	mg/kg (ppm)
Ethyl Acetate	< 50	mg/kg (ppm)	Ethyl benzene	< 25	mg/kg (ppm)
Ethyl Ether	< 100	mg/kg (ppm)	Ethylene Glycol	< 100	mg/kg (ppm)
Ethylene Oxide	< 50	mg/kg (ppm)	Formamide	< 50	mg/kg (ppm)
Heptane	< 50	mg/kg (ppm)	Hexane	< 10	mg/kg (ppm)
Isobutane	< 100	mg/kg (ppm)	Isobutyl acetate	< 50	mg/kg (ppm)
Isopropyl acetate	< 10	mg/kg (ppm)	Methanol	< 50	mg/kg (ppm)
Methyl Acetate	< 100	mg/kg (ppm)	Methylbutyl Ketone	< 25	mg/kg (ppm)
Methylene Chloride	< 50	mg/kg (ppm)	Methylethyl Ketone	< 50	mg/kg (ppm)
Methylisobutyl Ketone	< 100	mg/kg (ppm)	N,N-Dimethylacetamide	< 100	mg/kg (ppm)
N,N-Dimethylformamide	< 10	mg/kg (ppm)	n-Butane	< 100	mg/kg (ppm)
Neopentane	< 100	mg/kg (ppm)	Nitromethane	< 25	mg/kg (ppm)
N-Methylpyrrolidone	< 50	mg/kg (ppm)	Pentane	< 50	mg/kg (ppm)
Propane	< 100	mg/kg (ppm)	Propyl Acetate	< 50	mg/kg (ppm)
Pyridine	< 10	mg/kg (ppm)	Sulfolane	< 100	mg/kg (ppm)
Tert-Butylmethyl Ether	< 50	mg/kg (ppm)	Tetrahydrofuran	< 10	mg/kg (ppm)
Tetralin	< 10	mg/kg (ppm)	Toluene	< 50	mg/kg (ppm)
Trichloroethene	< 50	mg/kg (ppm)	Xylenes (p-, m-, o-)	< 50	mg/kg (ppm)

Salm.1: Salmonella via AOAC 081201, 2013.02 (BAX® PCR)

Analyzed 08/28/23

Salmonella spp. Negative /25 g

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11

(Petrifilm™) Analyzed 08/28/23

Staphylococcus aureus < 10 CFU/g

STEC.1: E. coli (O157:H7, O26, O45, O103, O111, O121, O145)

via AOAC 091301 (BAX® PCR, STEC Screen) Analyzed 08/28/23

Shiga toxin-producing E. coli Negative /25 g

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed

08/28/23


Yeast and Mold < 10 CFU/g



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Reported By:  Ryan Connelly, Chemistry Laboratory Manager, 9/1/2023

