11455 Pearl St Northglenn, CO 80233 (303) 296-0264

MURRAY-BROWN LABORATORIES, INC.
Beyond the Raw Data

Certificate of Analysis for

Badger Botanicals
79 W 900 S
Salt Lake City, UT 84101
Phone: (801) 882-4660

Received: 11/3/2025 @ 18 °C

R-BO-BGJC-529201

Sample ID: 2511039-003

ACR.1a: AC by mass via AOAC 2015.13 (Petrifilm™) Analyzed 11/03/25

Aerobic Plate Count	1,600	CFU/g

Asp.1: Aspergillus via AOAC PTM 022103 (Gene-Up® PCR) Analyzed 11/04/25

Aspergillus flavus	Absent	CFU/1 g	Aspergillus fumigatus	Absent	CFU/1 g
Aspergillus niger	Absent	CFU/1 g	Aspergillus tereus	Absent	CFU/1 g

CCR.1a: CC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 11/03/25

Total Coliform Bacteria	< 100	CFU/g

ECR.1a: EC by mass via AOAC OM 2018.13 (Petrifilm™) Analyzed 11/03/25

Escherichia coli	< 100	CFU/g

FM.1: Foreign Mater via Visual Inspection Analyzed 11/10/25

Foreign Matter	None Observed

GU Pro STEC SLM.2: STEC Salmonella via AOAC PTM 092101 Analyzed 11/04/25

Salmonella spp.	Absent	CFU/25 g	Shiga toxin-producing E. coli	Absent	CFU/25 g

ICPMS.1Metals via AOAC 2015.01 Modified (ICP/MS) Analyzed 11/06/25

Arsenic (As)	0.422	mg/kg (ppm)	Cadmium (Cd)	0.0145	mg/kg (ppm)
Lead (Pb)	0.758	mg/kg (ppm)	Mercury (Hg)	0.0320	mg/kg (ppm)

MIT.2: Kratom Alkaloids via AOAC 2017.14 (Modified) Analyzed 11/05/25

7-Hydroxymitragynine	< 0.00947	%	Isorhynchophylline	< 0.0474	%
Mitragynine	1.22	%	Mitraphylline	< 0.0474	%
Paynantheine	0.214	%	Speciociliatine	0.310	%
Speciogynine	0.150	%	Total Alkaloids	1.89	%

Original

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Pest.1: Pesticides by LC/MS/MS (Agilent App - Determination of Pesticides and Mycotoxins) Analyzed 11/11/25

Abamectin	< 50.0	µg/kg (ppb)	Acephate	< 25.0	µg/kg (ppb)
Acequinocyl	< 10.0	µg/kg (ppb)	Acetamiprid	< 10.0	µg/kg (ppb)
Aldicarb	< 10.0	µg/kg (ppb)	Azoxystrobin	< 10.0	µg/kg (ppb)
Bifenazate	< 50.0	µg/kg (ppb)	Bifenthrin	< 10.0	µg/kg (ppb)
Boscalid	< 50.0	µg/kg (ppb)	Carbaryl	< 25.0	µg/kg (ppb)
Carbofuran	< 50.0	µg/kg (ppb)	Chlorantraniliprole	< 25.0	µg/kg (ppb)
Chlorfenapyr	< 100	µg/kg (ppb)	Chlorpyrifos	< 10.0	µg/kg (ppb)
Clofentezine	< 10.0	µg/kg (ppb)	Coumaphos	< 10.0	µg/kg (ppb)
Cyfluthrin	< 50.0	µg/kg (ppb)	Cypermethrin	551	µg/kg (ppb)
Daminozide	< 25.0	µg/kg (ppb)	Diazinon	< 10.0	µg/kg (ppb)
Dichlorvos	< 50.0	µg/kg (ppb)	Dimethoate	< 25.0	µg/kg (ppb)
Dimethomorph	< 25.0	µg/kg (ppb)	Ethoprophos	< 25.0	µg/kg (ppb)
Etofenprox	< 10.0	µg/kg (ppb)	Etoxazole	< 25.0	µg/kg (ppb)
Fenhexamid	< 50.0	µg/kg (ppb)	Fenoxycarb	< 10.0	µg/kg (ppb)
Fenpyroximate	< 25.0	µg/kg (ppb)	Fipronil	< 10.0	µg/kg (ppb)
Flonicamid	< 25.0	µg/kg (ppb)	Fludioxonil	< 25.0	µg/kg (ppb)
Hexythiazox	< 10.0	µg/kg (ppb)	Imazalil	< 50.0	µg/kg (ppb)
Imidacloprid	< 10.0	µg/kg (ppb)	Kresoxim-methyl	< 10.0	µg/kg (ppb)
Malathion	< 100	µg/kg (ppb)	Metalaxyl	< 25.0	µg/kg (ppb)
Methiocarb	< 50.0	µg/kg (ppb)	Methomyl	< 25.0	µg/kg (ppb)
Methyl Parathion	< 200	µg/kg (ppb)	Mevinphos	< 50.0	µg/kg (ppb)
MGK-264	< 10.0	µg/kg (ppb)	Myclobutanil	< 50.0	µg/kg (ppb)
Naled	< 50.0	µg/kg (ppb)	Oxamyl	< 10.0	µg/kg (ppb)
Paclobutrazol	< 25.0	µg/kg (ppb)	Permethrin	< 10.0	µg/kg (ppb)
Phosmet	< 10.0	µg/kg (ppb)	Piperonyl Butoxide	< 10.0	µg/kg (ppb)
Prallethrin	< 25.0	µg/kg (ppb)	Propiconazol	< 25.0	µg/kg (ppb)
Propoxur	< 25.0	µg/kg (ppb)	Pyrethrins	< 50.0	µg/kg (ppb)
Pyridaben	< 10.0	µg/kg (ppb)	Spinetoram	< 25.0	µg/kg (ppb)
Spinosad A	< 10.0	µg/kg (ppb)	Spinosad D	< 50.0	µg/kg (ppb)
Spiromesifen	< 25.0	µg/kg (ppb)	Spirotetramat	< 25.0	µg/kg (ppb)
Spiroxamine	< 50.0	µg/kg (ppb)	Tebuconazole	< 25.0	µg/kg (ppb)
Thiacloprid	< 25.0	µg/kg (ppb)	Thiamethoxam	< 25.0	µg/kg (ppb)
Trifloxystrobin	< 10.0	µg/kg (ppb)			

STA.1a: S. aureus by mass via AOAC 2003.07, 2003.08, 2003.11 (Petrifilm™) Analyzed 11/03/25

Staphylococcus aureus	< 100	CFU/g

YM.1a: YM by mass via AOAC RI 121301 (Petrifilm™) Analyzed 11/03/25

Yeast and Mold	< 100	CFU/g

Reported By Jake S Hedges, Chemistry Laboratory Supervisor, 11/13/2025

Original