

**CERTIFIED DRUG FREE®**  
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**CERTIFIED GMP™****BSCG BATCH CERTIFICATION**  
**CERTIFIED CBD****REPORTING ADDRESS:**MM Inc.  
632 N. 2000 W., Suite 105  
Lindon, UT 84042**REPORT DATE:** March 29, 2021**RECEIVE DATE:** March 1, 2021**BRAND NAME:** Kannaway**PRODUCT NAME:** Pure Gold 2000mg**BATCH #:** 04721**LAB ID #:** 2103013 / 21-002747-0001**PRODUCT TYPE:** Finished Product - Oil**CANNABINOID PROFILE TESTING****METHOD:** Quantitative Analysis of Cannabinoids by High-Performance Liquid Chromatography-Diode Array Detection (HPLC-DAD) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

Density of Product (1.0 g/ml - water, 0.925 g/ml - oil, 0.945 g/ml - MCT oil)	0.945
Serving Size on Package (ml)	3.75
Package Size (ml)	120
Maximum Servings Per Day (ml)	7.5

Analyte	RESULTS		CALCULATED VALUES			PERCENT	
	mg/kg *	RL	mg/ml	mg/serving	mg/package	%	Pass/Fail
Cannabidiol (CBD)	18500	32.1	17.48	65.56	2097.90	1.9	
Cannabidiolic Acid (CBDA)	0	32.1	0.00	0.00	0.00	0.0	
Cannabigerol (CBG)	617	32.1	0.58	2.19	69.97	0.1	
Cannabinol (CBN)	44.3	32.1	0.04	0.16	5.02	0.0	
Delta 9-Tetrahydrocannabinol (D9-THC)	0	32.1	0.00	0.00	0.00	0.0	
Delta 8-Tetrahydrocannabinol (D8-THC)	0	32.1	0.00	0.00	0.00	0.0	
Cannabichromene (CBC)	72.1	32.1	0.07	0.26	8.18	0.0	
Tetrahydrocannabinolic acid (THCA)	0	32.1	0.00	0.00	0.00	0.0	
<b>Total Cannabinoids</b>	<b>19233.4</b>		<b>18.18</b>	<b>68.16</b>	<b>2181.07</b>	<b>1.9</b>	
<b>Max THC (THC + 0.877*THCA)</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0</b>	<b>Pass</b>
<b>Max CBD (CBD + 0.877*CBDA)</b>			<b>17.48</b>	<b>65.56</b>	<b>2097.90</b>	<b>1.9</b>	<b>Pass</b>
<b>Other Cannabinoids</b>			<b>0.69</b>	<b>2.60</b>	<b>83.17</b>	<b>0.1</b>	

**Notes:****RL - Reporting Limit**

\* Zero indicates the analyte was not detected subject to the RL

**Max THC and Max CBD are calculated values based on the weight loss of the acid group assuming complete decarboxylation of the acid to the neutral form****Max CBD should be within 80-120% of claim for product.****Max THC must be <0.30% to Pass.****Products with THC free claims may not have any measurable amount of Max THC present.****BANNED SUBSTANCE TESTING****METHOD:** Samples of the item were extracted and analyzed according to in-house methods for nutritional supplements by qualitative instrumental screen using ultra-high-performance liquid chromatography / high-resolution mass spectrometry (UHPLC/HRMS) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure. Method detection levels, which vary based on compound and matrix analyzed, are estimated to be in the 2-500 ng/g range for most compounds in most items.**TESTING MENU:**The testing menu covers 491 compounds including WADA Prohibited Substances and other prescription, over-the-counter, and illicit drugs not banned in sport. Details are available at <https://www.bscg.org/certified-drug-free-testing-menu-wada-prohibited-list-and-more/>.**RESULTS:**

No compounds from the testing menu were detected in the item.

**CONTAMINANTS - MICROBIOLOGICAL AGENTS****METHOD:** AOAC 991.14, 990.12, 2003.07, 2014.05, 2016.01 in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.**RESULTS (cfu/g, ND, or Absent/Present):**

Test	Result	LIMITS - Finished Products/Ingredients, Botanical Extract			
		USP	ANSI 173	AHPA	CBCC
Total Plate Count	<10	1 x 10 <sup>4</sup>	1 x 10 <sup>4</sup>	1 x 10 <sup>4</sup>	N/A
Yeast and Mold	<10	1 x 10 <sup>3</sup>	1 x 10 <sup>3</sup>	1 x 10 <sup>3</sup>	N/A
Total Coliforms	<10	N/A	1 x 10 <sup>2 a</sup>	1 x 10 <sup>2</sup>	N/A
E. Coli	ND	Absent	ND	ND	ND
Salmonella species	ND	Absent	ND	ND	ND
Staphylococcus aureus *	<10	N/A	ND	N/A	N/A
	<b>Pass/Fail</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

**Notes:****ND - Not Detected****N/A - Not Applicable**

\* Method validated in Food, Feed

**CBCC - California Bureau of Cannabis Control (CBCC) Emergency Regulation Text****USP 40-NF 35 <2023> - Microbiological Attributes of Nonsterile Nutritional and Dietary Supplements - May 1, 2017****ANSI 173 - 2013 ( a - ANSI 173 limits reference enterbacteriaceae as opposed to total coliforms)****AHPA Guidance Policies - Rev. 07/03/17**



# BANNED SUBSTANCES CONTROL GROUP

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## CONTAMINANTS - HEAVY METALS

**METHOD:** AOAC 2013.06 Quantitative Analysis of Heavy Metals by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for Arsenic, Cadmium, Lead, Mercury in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

### RESULTS (µg/g):

METAL	RESULT	LOQ	ACCEPTABLE LEVELS: (µg/day)				
			ICH Q3D	USP	Health Canada	ANSI 173	AHPA
Arsenic	<LOQ	0.047	15	15	10	10	10
Cadmium	<LOQ	0.047	5	5	6	4.1	4.1
Mercury	<LOQ	0.024	30	15 (2 as Hg)	20	2	2
Lead	<LOQ	0.047	5	5	10	10	6
Pass/Fail			Pass	Pass	Pass	Pass	Pass

**Notes:**  
 ICH Q3D - Guideline for Elemental Impurities - September 2015  
 USP 40-NF 35 <2232> - Elemental Contaminants in Dietary Supplements - May 1, 2017  
 Quality of Natural Health Products Guide - Natural and Non-prescription Health Products Directorate - Health Canada - May 1, 2015  
 ANSI 173 - 2013 ( \* - ANSI 173 limits reference chromium (VI) as opposed to total chromium)  
 AHPA Guidance Policies - Rev. 07/03/17

## CONTAMINANTS - SOLVENTS

**METHOD:** EPA5021A Residual Solvents by Head Space Gas Chromatography Mass Spectrometry (HS GC/MS) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

### RESULTS: ug/g (ppm)

Solvent	Category	Result	LOQ	Action Level	Pass/Fail
1,4-Dioxane	2	<LOQ	100	380	Pass
1-Pentanol	3	<LOQ	500	5000	Pass
2,2-Dimethylbutane	N/A	<LOQ	30		Pass
2,2-Dimethylpropane	N/A	<LOQ	200		Pass
2,3-Dimethylbutane	N/A	<LOQ	30		Pass
2-Butanol	2	<LOQ	200	5000	Pass
2-Ethoxyethanol	2	<LOQ	30	160	Pass
2-Methylbutane	N/A	<LOQ	200		Pass
2-Methylpentane	N/A	<LOQ	30		Pass
2-Propanol (IPA)	3	<LOQ	200	5000	Pass
3-Methylpentane	N/A	<LOQ	30		Pass
Acetic Acid	N/A	<LOQ	250		Pass
Acetone	3	<LOQ	200	5000	Pass
Acetonitrile	2	<LOQ	100	410	Pass
Anisole	N/A	<LOQ	500		Pass
Benzene	1	<LOQ	1	2	Pass
Butanes (sum)	3	<LOQ	400	5000	Pass
Butyl acetate	3	<LOQ	500	5000	Pass
Cyclohexane	2	<LOQ	200	3880	Pass
DMSO	3	<LOQ	500	5000	Pass
Ethyl acetate	3	<LOQ	200	5000	Pass
Ethyl benzene	N/A	<LOQ	200		Pass
Ethyl ether	3	<LOQ	200	5000	Pass
Ethylene glycol	2	<LOQ	200	620	Pass
Ethylene oxide		<LOQ	30	50	Pass
Formic Acid	3	<LOQ	250	5000	Pass
Hexanes (sum)	2	<LOQ	150	290	Pass
Isopropyl acetate	3	<LOQ	200	5000	Pass
Cumene (Isopropylbenzene)	2	<LOQ	30	70	Pass
m,p-Xylene	N/A	<LOQ	200		Pass
Methanol	2	<LOQ	200	3000	Pass
Methylene chloride	2	<LOQ	200	600	Pass
Methylpropane	N/A	<LOQ	200		Pass
n-Butane	N/A	<LOQ	200		Pass
n-Heptane	3	<LOQ	200	5000	Pass
n-Hexane	2	<LOQ	30	3000	Pass
n-Pentane	3	<LOQ	200	5000	Pass
o-Xylene	N/A	<LOQ	200		Pass
Pentanes (sum)	3	<LOQ	600	5000	Pass
Propane	N/A	<LOQ	200		Pass
Tetrahydrofuran	2	<LOQ	100	720	Pass
Toluene	2	<LOQ	100	890	Pass
Xylenes	N/A	<LOQ	400		Pass
Xylenes and Ethyl Benzene	2	<LOQ	600	2170	Pass

**Notes:**  
 USP <467> Category or N/A if Not Applicable  
 LOQ - Limit of Quantitation  
 Pass/Fail if <LOQ or Action Level based on USP <467> limits, and/or product specifications as appropriate.



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## CONTAMINANTS - PESTICIDES

**METHOD:** AOAC 2007.01 and EN 15662 (modified) in Accordance with ISO/IEC 17025:2017 Validated Standard Operating Procedure.

**RESULTS (Pass if <LOQ for all analytes)** Pass

Compound	LOQ (mg/ kg)	Compound	LOQ (mg/ kg)	Compound	LOQ (mg/ kg)
Abamectin	0.10	Daminozide	0.10	Fenthion oxon sulfone	0.10
Acephate	0.10	DCPMU	0.05	Fenthionoxon sulfoxide	0.02
Acequinocyl	0.10	DDD, o,p'-	0.10	Fenthion sulfone	0.05
Acetamiprid	0.02	DDD, p,p'-	0.10	Fenuron	0.02
Acetochlor	0.10	DDE, o,p'-	0.10	Fipronil	0.10
Acrinathrin	0.10	DDE, p,p'-	0.10	Flonicamid	0.10
Alachlor	0.10	DDT, o,p'-	0.10	Fluchloralin	0.10
Aldicarb	0.10	DDT, p,p'-	0.10	Flucythrinate	0.10
Aldicarb sulfoxide	0.10	DEF (Tribufos)	0.10	Fludioxonil	0.20
Aldoxycarb (Aldicarb-sulfone)	0.10	Deltamethrin	0.10	Flufenacet	0.02
Aldrin	0.10	Desmedipham	0.10	Flumioxazin	0.10
Ametocrotradin	0.02	Diallate	0.10	Fluometuron	0.02
Ametryn	0.50	Diazinon	0.02	Fluopicolide	0.05
Aspon	0.10	Diazoxon	0.10	Fluopyram	0.02
Asulam	0.10	Dichlobenil	0.10	Fluoxastrobin	0.05
Atrazine	0.10	Dichlofluanid	0.10	Flupyradifurone	0.02
Atrazine-desethyl	0.10	Dichlorvos	0.10	Fluridone	0.10
Azinphos-ethyl	0.02	Diclobutrazol	0.05	Flusilazole	0.02
Azinphos-methyl	0.02	Dicofol	0.10	Flutolanil	0.02
Azoxystrobin	0.02	Dicrotophos	0.05	Flutriafol	0.02
Benalaxyl	0.02	Dieldrin	0.10	Fluvalinate	0.10
Bendiocarb	0.02	Diethofencarb	0.02	Fluxapyroxad tau-	0.02
Benfluralin	0.10	Diethyltoluamide (DEET)	0.05	Fomesafen	0.10
Benoxacor	0.05	Difenoconazole	0.10	Fonofos	0.10
Bensulide	0.05	Dimethenamid	0.05	Forchlorfenuron	0.05
BHC alpha isomer	0.10	Dimethoate	0.05	Formetanate	0.05
BHC beta isomer	0.10	Dimethomorph	0.02	Furathiocarb	0.02
BHC delta isomer	0.50	Diniconazole	0.20	Heptachlor	0.10
Bifenazate	0.02	Dinotefuran	0.20	Heptachlor epoxide	0.10
Bifenthrin	0.02	Dioxathion	0.10	Heptenophos	0.10
Boscalid	0.02	Diphenamid	0.02	Hexachlorobenzene	0.10
Bromophos-ethyl	0.10	Diphenylamine	0.10	Hexaconazole	0.10
Bromophos-methyl	0.20	Disulfoton	0.10	Hexazinone	0.10
Bromopropylate	0.10	Disulfoton sulfone	0.10	Hexythiazox	0.02
Bromuconazole	0.10	Disulfoton sulfoxide	0.10	Imazalil	0.10
Bupirimate	0.02	Diuron	0.05	Imidacloprid	0.10
Buprofezin	0.05	Edifenphos	0.05	Indaziflam	0.02
Butachlor	0.50	Endosulfan alpha	0.20	Indoxacarb	0.02
Butralin	0.20	Endosulfan beta	0.20	Iprobenfos	0.10
Butylate	0.10	Endosulfan sulfate	0.10	Iprodione	0.10
Cadusafos	0.02	Endrin	0.10	Isobenzan	0.10
Captan	1.00	EPN	0.05	Isocarbofos	0.50
Carbaryl	0.05	EPTC	0.10	Isodrin	0.10
Carbendazim	0.10	Esfenvalerate/Fenvalerate	0.20	Isofenphos	0.05
Carbofuran	0.02	Etaconazole	0.10	Isofenphos-methyl	0.02
Carbophenothion	0.20	Ethalfuralin	0.10	Isofenphos oxon	0.05
Carboxin	0.02	Ethiofencarb	0.05	Isoprocarb	0.02
Carfentrazone-ethyl	0.10	Ethion	0.20	Isopropalin	0.20
Chlorantraniliprole	0.02	Ethirimol	0.10	Isoprothiolane	0.05
Chlordane trans-	0.20	Ethofumesate	0.05	Isoproturon	0.05
Chlordane cis-	0.20	Ethoprophos	0.02	Isoxaben	0.05
Chlorfenapyr	0.50	Etofenprox	0.02	Isoxaflutole	0.05
Chlorfenoson	0.20	Etoxazole	0.02	Kresoxim-methyl	0.05
Chlorfenvinphos	0.05	Etridiazole	0.10	Lactofen	0.50
Chlorobenzilate	0.10	Etrifos	0.02	Lenacil	0.10
Chloroneb	0.20	Famoxadone	0.20	Lindane (gamma BHC)	0.10
Chlorpyrifos	0.05	Famphur	0.10	Linuron	0.02
Chlorpyrifos-methyl	0.20	Fenamidone	0.02	Malaoxon	0.05
CIPC	1.00	Fenamiphos	0.02	Malathion	0.05
Clethodim	0.05	Fenamiphos sulfone	0.02	Mandipropamid	0.02
Clethodim Sulfone	0.05	Fenamiphos sulfoxide	0.02	Mecarbam	0.02
Clethodim Sulfoxide	0.05	Fenazaquin	0.10	Mepanipyrim	0.05
Clofentezine	0.02	Fenbuconazole	0.10	Merphos	0.50
Clomazone	0.02	Fenchlorphos	0.10	Metalaxyl	0.05
Clothianidin	0.20	Fenchlorphos-oxon	0.10	Metaldehyde	0.05
Coumaphos	0.05	Fenhexamid	0.10	Metconazole	0.10
Crotoxyphos	0.02	Fenitrothion	0.10	Methacrifos	0.10
Cyanazine	0.02	Fenobucarb	0.05	Methamidophos	0.05
Cyanofenphos	0.02	Fenoxycarb	0.02	Methidathion	0.05
Cyantraniliprole	0.05	Fenpropathrin	0.05	Methiocarb	0.05
Cyazofamid	0.02	Fenpyroximate	0.02	Methiocarb sulfone	0.10
Cycloate	0.10	Fenson	0.10	Methiocarb sulfoxide	0.10
Cyfluthrin	0.20	Fensulfothion	0.02	Methomyl	0.10
Cyhalothrin, lambda	0.20	Fensulfothion oxon	0.02	Methoxychlor	0.10
Cymoxanil	0.05	Fensulfothion sulfone	0.10	Methoxyfenozide	0.02
Cypermethrin	0.20	Fensulfothion-oxon-sulfone	0.02	Metobromuron	0.05
Cyprodinil	0.10	Fenthion	0.05	Metolachlor	0.10
Dacthal	0.10	Fenthion oxon	0.02	Metolcarb	0.05



**CONTAMINANTS - PESTICIDES (CONTINUED)**

Compound	LOQ (mg/ kg)	Compound	LOQ (mg/ kg)	Compound	LOQ (mg/ kg)
Metrafenone	0.05	Propamocarb	0.05	Tolyfluarid	0.05
Metribuzin	0.10	Propanil	0.05	Tralkoxydim	0.10
Mevinphos	0.10	Propargite	0.05	Triadimefon	0.05
Mexacarbate	0.02	Propazine	0.02	Triallate	0.10
MGK 264	0.02	Propetamphos	0.05	Triazophos	0.02
Mirex	0.10	Propham	0.05	Tridiphane	0.50
Molinate	0.05	Propiconazole	0.05	Trifloxystrobin	0.02
Monocrotophos	0.10	Propoxur	0.05	Triflumizole	0.02
Monolinuron	0.02	Propoxycarbazone Na	0.05	Trifluralin	0.10
Myclobutanil	0.05	Propyzamide	0.05	Triforin	0.10
Naled	0.10	Prothiofos	0.10	Triticonazole	0.05
Napropamide	0.05	Pyraclostrobin	0.02	Vinclozolin	0.10
Neburon	0.02	Pyrazophos	0.05	Zoxamide	0.02
Nitrapyrin	0.10	Pyrethrins	0.05		
Norflurazon	0.05	Pyridaben	0.02		
Omethoate	0.10	Pyridafol	0.10		
O-Phenylphenol	0.10	Pyridate	0.02		
Oxadixyl	0.10	Pyrimethanil	0.05		
Oxamyl	0.10	Pyriproxifen	0.02		
Oxamyl-oxime	0.10	Pyroxasulfone	0.02		
Oxychlorane	0.10	Pyroxulam	0.02		
Oxydemeton-Methyl	0.10	Quinalphos	0.05		
Oxythioquinox	0.20	Quinoxifen	0.05		
Paclobutrazol	0.05	Quintozone (PCNB)	0.20		
Paraoxon-ethyl	0.02	Resmethrin	0.05		
Paraoxon methyl	0.10	Rotenone	0.05		
Parathion ethyl	0.10	S421	0.10		
Parathion methyl	0.20	Simazine	0.10		
Penconazole	0.05	Simetryn	0.20		
Pendimethalin	0.05	Spinetoram	0.02		
Penflufen	0.02	Spinosad	0.05		
Pentachloroaniline	0.10	Spirodiclofen	0.10		
Pentachloroanisole	0.10	Spiromesifen	0.05		
Pentachlorobenzene(PCB)	0.10	Spirotetramat	0.05		
Pentachlorothioanisole(PCTA)	0.10	Spiroxamine	0.02		
Penthiopyrad	0.02	Sulfotep	0.05		
Permethrin	0.05	Sulfoxaflor	0.05		
Perthane	0.10	Sulprofos	0.02		
Phenmedipham	0.05	Tebuconazole	0.10		
Phenthoate	0.05	Tebufenozide	0.02		
Phorate	0.05	Tebuthiuron	0.02		
Phorate Sulfone	0.05	Tecnazene	0.10		
Phorate Sulfoxide	0.05	Tefluthrin	0.10		
Phosalone	0.05	Terbufos	0.02		
Phosmet	0.10	Terbufos sulfone	0.05		
Phosphamidon	0.05	Terbufos sulfoxide	0.05		
Phoxim	0.05	Terbuthylazine	0.02		
Pinoxaden	0.02	Terbutryn	0.02		
Piperonyl butoxide	0.05	Tetrachlorvinphos	0.05		
Pirimicarb	0.02	Tetraconazole	0.05		
Pirimiphos-methyl	0.05	Tetradifon	0.20		
Pirimiphos-ethyl	0.02	Tetramethrin	0.05		
Prallethrin	0.10	Tetrasul	0.10		
Prochloraz	0.02	Thiabendazole	0.10		
Procymidone	0.10	Thiabendazole, 5-hydroxy	0.10		
Profenofos	0.10	Thiacloprid	0.05		
Profluralin	0.10	Thiamethoxam	0.10		
Promecarb	0.05	Thiobencarb	0.05		
Prometon	0.10	Thiodicarb	0.05		
Prometryn	0.02	Thiophanate-methyl	0.05		
Propachlor	0.02	Tolclofos-methyl	0.10		

This batch has been certified in the BSCG Certified CBD program. Please contact info@bscg.org with any concerns or questions.

Sincerely,

Oliver Cattin  
President

*Disclaimer: Cannabinoids are prohibited substances in sport with the exception of Cannabidiol (CBD) under World Anti-Doping Agency Prohibited List language. Results apply only to the sample(s) tested. BSCG makes no claims or representations about the item(s) and does not endorse, make statements about the efficacy or safety, or make any other assurances regarding the item(s) including as to the absence of banned substances in sport or any other analytes not included in testing.*