

**BSCG BATCH CERTIFICATION
CERTIFIED CBD****REPORTING ADDRESS:**Love Hemp
22 Carlton Road, Unit 19b
South Croydon, UK CR2 0BS**REPORT DATE:** April 14, 2021**RECEIVE DATE:** March 6, 2021**BRAND NAME:** Love Hemp**PRODUCT NAME:** 300mg CBD Balm**BATCH #:** LH020321BS**LAB ID #:** 2103052-21 / 21-002740-0021**PRODUCT TYPE:** Finished Product - Balm**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) 1
Serving Size on Package (g) 1
Package Size (g) 50
Maximum Servings Per Day (g) 1

Analyte	RESULTS		CALCULATED VALUES			PERCENT	
	mg/kg *	RL	mg/g	mg/serving	mg/package	%	Pass/Fail
Cannabidiol (CBD)	5120	3210	5.12	5.12	256.00	0.5	Pass
Cannabidiolic Acid (CBDA)	0	32.1	0.00	0.00	0.00	0.0	
Cannabigerol (CBG)	0	32.1	0.00	0.00	0.00	0.0	
Cannabinol (CBN)	0	32.1	0.00	0.00	0.00	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)	0	32.1	0.00	0.00	0.00	0.0	
Tetrahydrocannabinolic acid (THCA)	0	32.1	0.00	0.00	0.00	0.0	
Total Cannabinoids	5120		5.12	5.12	256.00	0.5	
Max THC (THC + 0.877*THCA)			0.00	0.00	0.00	0.0	
Max CBD (CBD + 0.877*CBDA)			5.12	5.12	256.00	0.5	Pass
Other Cannabinoids			0.00	0.00	0.00	0.0	

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.

For products made in the UK Max THC must be less than 1 mg/package.

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):** LIMITS - Finished Products/Ingredients, Botanical Extract

Test	Result	USP	ANSI 173	AHPA	CBCC
Total Plate Count	<10	1 x 10 ⁴	1 x 10 ⁴	1 x 10 ⁴	N/A
Yeast and Mold	<10	1 x 10 ³	1 x 10 ³	1 x 10 ³	N/A
Total Coliforms	<10	N/A	1 x 10 ^{2 a}	1 x 10 ²	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
	Pass/Fail	Pass	Pass	Pass	Pass

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: (ppm) - Cosmetics		
			US FDA	Canada	Germany
Arsenic	<LOQ	0.049	NA	3	0.5
Cadmium	<LOQ	0.049	NA	3	0.1
Mercury	<LOQ	0.024	1	1	0.1
Lead	<LOQ	0.049	10	10	2
		Pass/Fail	50	N/A	NA
			Pass	Pass	Pass

Notes:

US FDA Testing of Cosmetics for Arsenic, Cadmium, Chromium, Cobalt, Lead, Mercury, and Nickel Content - May 7, 2019

German Federal Office of Consumer Protection and Food Safety (BVL) - July 24, 2017

Government of Canada - Guidance on Heavy Metal Impurities in Cosmetics - July 20, 2012

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.



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
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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
Ametoctradin	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	Dichlofuanid	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	Isocarboxiphen	0.50
Carbaryl	0.05	EPTC	0.10	Isodrin	0.10
Carbendazim	0.10	Esfenvalerate/Fenvalerate	0.20	Isufenphos	0.05
Carbofuran	0.02	Etaconazole	0.10	Isufenphos-methyl	0.02
Carbophenothion	0.20	Ethalfuralin	0.10	Isufenphos 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	Etrimfos	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	Malaaxon	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
Clofentazine	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	Tolyfluairid	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	Quintozene (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.