

Order #: 48611 Order Name: Original Hemp 1000 Mg Natural Batch#: 46818 Received: 02/10/2020 Completed: 02/13/2020

Arise Bioscience 4855 Technology Way, Suite 500 Boca Raton FL, 33431 (866) 407-1164



Sample



0.214% D9-THC

3.524% Total CBD

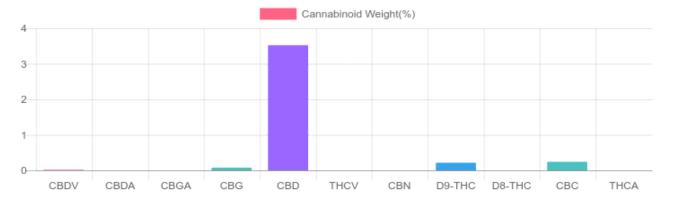
1,148.0 mg Cannabinoids per bottle 993.8 mg CBD per bottle

1 bottle = 30 ml per bottle x density (0.94) x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA

GSL SOP 400	PREPARED: 02/10/2020 16:58:20		UPLOADED: 02/11/2020 09:35:1		
Cannabinoids	LOQ	weight(%)	mg/g	mg/bottle	
D9-THC	10 PPM	0.214%	2.138	60.3	
THCA	10 PPM	N/D	N/D	N/D	
CBD	10 PPM	3.524%	35.242	993.8	
CBDA	20 PPM	N/D	N/D	N/D	
CBDV	20 PPM	0.016%	0.156	4.4	
CBC	10 PPM	0.240%	2.399	67.7	
CBN	10 PPM	N/D	N/D	N/D	
CBG	10 PPM	0.077%	0.774	21.8	
CBGA	20 PPM	N/D	N/D	N/D	
D8-THC	10 PPM	N/D	N/D	N/D	
THCV	10 PPM	N/D	N/D	N/D	
TOTAL D9-THC		0.214%	0.214%	60.3	
TOTAL CBD*		3.524%	35.242	993.8	
TOTAL CANNABINOIDS		4.071%	40.709	1,148.0	



Reporting Limit 10 ppm

*Total CBD = CBD + CBDA x 0.877

N/D - Not Detected B/LOO - Relow Limit of Quantification

N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

Green Scientific Labs info@greenscientificlabs.com 1-833 TEST CBD







Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.



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PESTICIDE ANALYSIS:

GSL SOP 401 PREPARED: 02/10/2020 18:24:22 UPLOADED: 02/11/2020 13:46:47

GCMS-MS - Shimadzu GCMS-TQ8040

Pesticide Action Leve		Results	LOQ	LOD Pesticide		Action Level Results LOQ LOD			
resticide	(ppm)	(ppm)	(ppm)	(ppm)	resticide	(ppm)	(ppm)	(ppm)	(ppm)
CAPTAN	0.700	N/D	0.003	0.001	CYPERMETHRIN	1.000	N/D	0.003	0.001
CHLORDANE	0.100	N/D	0.003	0.001	FIPRONIL	0.100	N/D	0.003	0.001
CHLORFENAPYR	0.100	N/D	0.003	0.001	FLUDIOXONIL	0.100	N/D	0.003	0.001
COUMAPHOS	0.100	N/D	0.003	0.001	PARATHION-METHYL	0.100	N/D	0.003	0.001
CYFLUTHRIN	2.000	N/D	0.003	0.001	PENTACHLORONITROBENZENI	E 0.100	N/D	0.003	0.001

LCMS-MS - Shimadzu LCMS-8060

ACEPHATE 0.100 N/D 0.001 0.001 KRESOXIM-METHYL 0.100 N/D 0.010 0.005 ACEQUINOCYL 0.100 N/D 0.001 0.001 MALATHION 0.500 N/D 0.005 0.001 ACETAMIPRID 0.100 N/D 0.005 0.001 METALAXYL 2.000 N/D 0.005 0.001 ALDICARB 0.100 N/D 0.005 0.001 METALAXYL 2.000 N/D 0.005 0.001 AZOXYSTROBIN 0.100 N/D 0.005 0.001 METHOCARB 0.100 N/D 0.005 0.001 AZOXYSTROBIN 0.100 N/D 0.005 0.001 METHOMYL 1.000 N/D 0.001 0.001 BIFENAZATE 0.100 N/D 0.005 0.001 METHOMYL 1.000 N/D 0.001 0.001 0.001 BIFENAZATE 0.100 N/D 0.005 0.001 METHOMYL 1.000 N/D 0.001 0.001 0.001 BIFENAZATE 0.100 N/D 0.005 0.001 MYCLOBUTANIL 0.100 N/D 0.005 0.001 OXAMYL 0.500 N/D 0.005 0.001 AZOXYSTROBIN 0.100 N/D 0.005 0.001 NALED 0.100 N/D 0.005 0.001 AZOXYSTROBIN 0.100 N/D 0.001 0.001 AZOXYSTROBIN 0.100	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)	Pesticide	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ACEQUINOCYL ACETAMIPRID O.100 N/D O.005 O.001 METHALAXYL O.000 N/D O.005 O.001 ACETAMIPRID O.100 N/D O.005 O.001 METHALAXYL O.000 N/D O.005 O.001 ACDITAMIPRID O.100 N/D O.005 O.001 METHOCARB O.100 N/D O.005 O.001 AZOXYSTROBIN O.100 N/D O.005 O.001 METHOCARB O.100 N/D O.005 O.001 METHOCARB O.100 N/D O.001 O.001 DIBENAZATE O.100 N/D O.005 O.001 METHOMYL O.100 N/D O.001 O.001 DIBENAZATE O.100 N/D O.005 O.001 METHOMYL O.100 N/D O.001 O.001 DIBENAZATE O.100 N/D O.005 O.001 METHOMYL O.100 N/D O.005 O.001 DISPINAZATE O.100 N/D O.005 O.001 METHOMYL O.100 N/D O.005 O.001 OXAMYL O.100 N/D O.005 OXAMYL O.100 N/D O.005 OXAMYL O.100 N/D O.005 OXAMYL O.100 N/D O.006	ABAMECTIN B1A	0.100	N/D	0.005	0.001	IMIDACLOPRID	5.000	N/D	0.005	0.001
ACETAMIPRID 0.100 N/D 0.005 0.001 METALAXYL 2.000 N/D 0.001 0.001 0.001 ALDICARB 0.100 N/D 0.005 0.001 METHIOCARB 0.100 N/D 0.005 0.001 ALDICARB 0.100 N/D 0.005 0.001 METHIOCARB 0.100 N/D 0.005 0.001 0.001 METHIOCARB 0.100 N/D 0.005 0.001 0.001 METHIOCARB 0.100 N/D 0.005 0.001 0.001 METHIOCARB 0.100 N/D 0.001 0	ACEPHATE	0.100	N/D	0.001	0.001	KRESOXIM-METHYL	0.100	N/D	0.010	0.005
ALDICARB	ACEQUINOCYL	0.100	N/D	0.001	0.001	MALATHION	0.500	N/D	0.005	0.001
AZOXYSTROBIN 0.100 N/D 0.001 0.001 METHOMYL 1.000 N/D 0.001 0.001 0.001 BIFENAZATE 0.100 N/D 0.005 0.001 MEVINPHOS 0.100 N/D 0.001 0.001 0.001 BIFENAZATE 0.100 N/D 0.005 0.001 MEVINPHOS 0.100 N/D 0.005 0.001 0.	ACETAMIPRID	0.100	N/D	0.005	0.001	METALAXYL	2.000	N/D	0.001	0.001
BIFENAZATE 0.100	ALDICARB	0.100	N/D	0.005	0.001	METHIOCARB	0.100	N/D	0.005	0.001
BIFENTHRIN 3.000	AZOXYSTROBIN	0.100	N/D	0.001	0.001	METHOMYL	1.000	N/D	0.001	0.001
BOSCALID 0.100	BIFENAZATE	0.100	N/D	0.005	0.001	MEVINPHOS	0.100	N/D	0.001	0.001
CARBARYL 0.500 N/D 0.003 0.001 OXAMYL 0.500 N/D 0.001 0.001 0.001 CARBOFURAN 0.100 N/D 0.001 0.001 0.001 PACLOBUTRAZOL 0.100 N/D 0.005 0.001 CHLORANTRANILIPROLE 10.000 N/D 0.005 0.005 PERMETHRINS 0.500 N/D 0.005 0.001 CHLORAYTRANILIPROLE 10.000 N/D 0.001 0.001 PHOSMET 0.100 N/D 0.005 0.001 CHLORAYTRANILIPROLE 0.100 N/D 0.001 0.001 PHOSMET 0.100 N/D 0.005 0.001 DAMINOZIDE 0.100 N/D 0.005 0.001 BUTOXIDE 0.100 N/D 0.005 0.001 DIMETHORY 0.100 N/D 0.005 0.001 PRALLETHRIN 0.100 N/D 0.005 0.005 DICHLORYOS 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.005 0.005 DIMETHOATE 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.001 0.001 DIMETHOATE 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.001 0.001 DIMETHOMORPH 2.000 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.005 0.005 DIODETHORYOS 0.100 N/D 0.001 0.001 PROPICONAZOLE 0.100 N/D 0.005 0.005 DIMETHOATE 0.100 N/D 0.001 0.001 PROPICONAZOLE 0.100 N/D 0.001 0.001 DIMETHOMORPH 2.000 N/D 0.001 0.001 PROPICONAZOLE 0.100 N/D 0.005 0.005 DIMETHORYOPHOS 0.100 N/D 0.001 0.001 PROPICONAZOLE 0.100 N/D 0.005 0.005 DIMETHORYOPHOS 0.100 N/D 0.001 0.001 PYRETHRINS 0.500 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.001 0.001 PYRIDABEN 0.100 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.005 0.001 PYRIDABEN 0.100 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 0.001 FENDRYCARB 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.005 0.001 FENDRYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.001 0.001 FENDRYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.001 0.001 0.001 TEBUCONAZOLE 0.100 N/D 0.001 0.001 0.001 THIACLOPRID 0.100 N/D 0.005 0.001 UNID 0.001 0.001 0.001 UNID 0.005 0.001 THIACLOPRID 0.100 N/D 0.005 0.001 UNID 0.001 0	BIFENTHRIN	3.000	N/D	0.005	0.001	MYCLOBUTANIL	0.100	N/D	0.005	0.001
CARBOFURAN 0.100 N/D 0.001 0.001 PACLOBUTRAZOL 0.100 N/D 0.005 0.001 CHLORANTRANILIPROLE 10.000 N/D 0.005 0.005 PERMETHRINS 0.500 N/D 0.005 0.001 CHLORANTRANILIPROLE 10.000 N/D 0.001 0.001 PHOSMET 0.100 N/D 0.005 0.001 CLOFENTEZINE 0.100 N/D 0.001 0.001 PIPERONYL 3.000 N/D 0.001 0.001 DIMINOZIDE 0.100 N/D 0.005 0.001 BUTOXIDE 3.000 N/D 0.005 0.005 0.005 DIAZINON 0.100 N/D 0.005 0.001 PRALLETHRIN 0.100 N/D 0.005 0.005 DIMINOZIDE 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.010 0.005 0.005 DIMINETHOATE 0.100 N/D 0.001 0.001 PROPICONAZOLE 0.100 N/D 0.001 0.001 DIMINETHOMORPH 2.000 N/D 0.005 0.001 PYRETHRINS ETHOPROPHOS 0.100 N/D 0.001 0.001 (PYRETHRIN I) PETOFENPROX 0.100 N/D 0.001 0.001 PYREIDABEN 0.100 N/D 0.005 0.005 ETOFENPROX 0.100 N/D 0.001 0.001 PYRIDABEN 0.100 N/D 0.005 0.001 PYRIDABEN 0.100 N/D 0.005 0.001 FENDAXOLE 0.100 N/D 0.001 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.001 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 TEROXYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENDAXOLE 0.100 N/D 0.005 0.001 TEROXYCARB 0.100 N/D 0.005 0.0	BOSCALID	0.100	N/D	0.005	0.001	NALED	0.100	N/D	0.005	0.001
CHLORANTRANILIPROLE 10.000 N/D 0.005 0.005 PERMETHRINS 0.500 N/D 0.005 0.001 CHLORPYRIFOS 0.100 N/D 0.001 0.001 PHOSMET 0.100 N/D 0.005 0.001 CLOFENTEZINE 0.100 N/D 0.001 0.001 PIPERONYL 3.000 N/D 0.001 0.001 DIAZINON 0.100 N/D 0.005 0.001 PRALLETHRIN 0.100 N/D 0.005 0.005 DICHLORVOS 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.010 0.005 DIMETHOATE 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.001 0.001 DIMETHOMORPH 2.000 N/D 0.005 0.001 PYRETHRINS 0.500 N/D 0.005 0.005 ETOFENPROX 0.100 N/D 0.001 0.001 PYRETHRINS 0.500 N/D 0.005 0.005 ETOXAZOLE 0.100 N/D 0.005 0.001 PYRETHRINS 0.500 N/D 0.005 0.001 PYREDABEN 0.100 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.001 0.001 ETOXAZOLE 0.100 N/D 0.001 0.001 PYREDABEN 0.100 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.001 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.005 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPROXIMATE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPROXIMATE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPROXIMATE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001	CARBARYL	0.500	N/D	0.003	0.001	OXAMYL	0.500	N/D	0.001	0.001
CHLORPYRIFOS 0.100 N/D 0.001 0.001 PHOSMET 0.100 N/D 0.005 0.001 CLOFENTEZINE 0.100 N/D 0.001 0.001 PIPERONYL 3.000 N/D 0.001 0.001 DIAZINON 0.100 N/D 0.005 0.001 BUTOXIDE 3.000 N/D 0.005 0.001 DIAZINON 0.100 N/D 0.005 0.001 PRALLETHRIN 0.100 N/D 0.005 0.005 DICHLORVOS 0.100 N/D 0.005 0.001 PROPICONAZOLE 0.100 N/D 0.010 0.005 DIMETHOATE 0.100 N/D 0.001 0.001 PROPOXUR 0.100 N/D 0.001 0.001 DIMETHOMORPH 2.000 N/D 0.005 0.001 PYRETHRINS ETHOPROPHOS 0.100 N/D 0.001 0.001 (PYRETHRIN I) ETOFENPROX 0.100 N/D 0.001 0.001 (PYRETHRIN I) ETOXAZOLE 0.100 N/D 0.001 0.001 PYRIDABEN 0.100 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.001 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPROXIMATE 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.001 0.001 FENNEXAMID 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.001 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 UMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.005 0.001 UMAZALIL 0.100 N/D 0.005 0.001	CARBOFURAN	0.100	N/D	0.001	0.001	PACLOBUTRAZOL	0.100	N/D	0.005	0.001
CLOFENTEZINE 0.100	CHLORANTRANILIPROLE	10.000	N/D	0.005	0.005	PERMETHRINS	0.500	N/D	0.005	0.001
DAMINOZIDE 0.100	CHLORPYRIFOS	0.100	N/D	0.001	0.001	PHOSMET	0.100	N/D	0.005	0.001
DAMINOZIDE 0.100	CLOFENTEZINE	0.100	N/D	0.001	0.001	PIPERONYL	0.000	N/D	0.004	0.004
DICHLORVOS 0.100	DAMINOZIDE	0.100	N/D	0.005	0.001	BUTOXIDE	3.000	N/D	0.001	0.001
DIMETHOATE 0.100	DIAZINON	0.100	N/D	0.001	0.001	PRALLETHRIN	0.100	N/D	0.005	0.005
DIMETHOMORPH 2.000	DICHLORVOS	0.100	N/D	0.005	0.001	PROPICONAZOLE	0.100	N/D	0.010	0.005
ETHOPROPHOS 0.100 N/D 0.001 0.001 (PYRETHRIN I) 0.500 N/D 0.005 0.	DIMETHOATE	0.100	N/D	0.001	0.001	PROPOXUR	0.100	N/D	0.001	0.001
ETHOPROPHOS 0.100 N/D 0.001 0.001 (PYRETHRIN I) ETOFENPROX 0.100 N/D 0.001 0.001 PYRIDABEN 0.100 N/D 0.005 0.001 ETOXAZOLE 0.100 N/D 0.010 0.005 SPINETORAM 0.100 N/D 0.001 0.001 FENHEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENOXYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPYROXIMATE 0.100 N/D 0.001 0.001 SPIROMESIFEN 0.100 N/D 0.001 0.001 FLONICAMID 0.100 N/D 0.025 0.010 SPIROMENIE 0.100 N/D 0.001 0.001 FLONICAMID 0.100 N/D 0.025 0.010 SPIROMENIE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001	DIMETHOMORPH	2.000	N/D	0.005	0.001	PYRETHRINS	0.500	N/D	0.005	0.005
ETOXAZOLE 0.100 N/D 0.010 0.005 SPINETORAM 0.100 N/D 0.001 0.001 FENHEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENOXYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPYROXIMATE 0.100 N/D 0.001 0.001 SPIROTETRAMAT 0.100 N/D 0.001 0.001 FLONICAMID 0.100 N/D 0.025 0.010 SPIROXAMINE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001	ETHOPROPHOS	0.100	N/D	0.001	0.001	(PYRETHRIN I)	0.500	N/D	0.005	0.005
FENHEXAMID 0.100 N/D 0.005 0.001 SPINOSAD 0.100 N/D 0.001 0.001 FENOXYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPYROXIMATE 0.100 N/D 0.001 0.001 SPIROTETRAMAT 0.100 N/D 0.001 0.001 FLONICAMID 0.100 N/D 0.025 0.010 SPIROXAMINE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001	ETOFENPROX	0.100	N/D	0.001	0.001	PYRIDABEN	0.100	N/D	0.005	0.001
FENOXYCARB 0.100 N/D 0.005 0.001 SPIROMESIFEN 0.100 N/D 0.005 0.001 FENPYROXIMATE 0.100 N/D 0.001 0.001 SPIROTETRAMAT 0.100 N/D 0.001 0.001 FLONICAMID 0.100 N/D 0.025 0.010 SPIROXAMINE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001 THIAMETHOXAM 5.000 N/D 0.001 0.001	ETOXAZOLE	0.100	N/D	0.010	0.005	SPINETORAM	0.100	N/D	0.001	0.001
FENPYROXIMATE 0.100 N/D 0.001 0.001 SPIROTETRAMAT 0.100 N/D 0.001 0.001 FLONICAMID 0.100 N/D 0.025 0.010 SPIROXAMINE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001 THIAMETHOXAM 5.000 N/D 0.001 0.001	FENHEXAMID	0.100	N/D	0.005	0.001	SPINOSAD	0.100	N/D	0.001	0.001
FLONICAMID 0.100 N/D 0.025 0.010 SPIROXAMINE 0.100 N/D 0.001 0.001 HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001 THIAMETHOXAM 5.000 N/D 0.001 0.001	FENOXYCARB	0.100	N/D	0.005	0.001	SPIROMESIFEN	0.100	N/D	0.005	0.001
HEXYTHIAZOX 0.100 N/D 0.005 0.001 TEBUCONAZOLE 0.100 N/D 0.005 0.001 IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001 THIAMETHOXAM 5.000 N/D 0.001 0.001	FENPYROXIMATE	0.100	N/D	0.001	0.001	SPIROTETRAMAT	0.100	N/D	0.001	0.001
IMAZALIL 0.100 N/D 0.005 0.001 THIACLOPRID 0.100 N/D 0.001 0.001 THIAMETHOXAM 5.000 N/D 0.001 0.001	FLONICAMID	0.100	N/D	0.025	0.010	SPIROXAMINE	0.100	N/D	0.001	0.001
THIAMETHOXAM 5.000 N/D 0.001 0.001	HEXYTHIAZOX	0.100	N/D	0.005	0.001	TEBUCONAZOLE	0.100	N/D	0.005	0.001
	IMAZALIL	0.100	N/D	0.005	0.001	THIACLOPRID	0.100	N/D	0.001	0.001
TRIFLOXYSTROBIN 0.100 N/D 0.001 0.001						THIAMETHOXAM	5.000	N/D	0.001	0.001
						TRIFLOXYSTROBIN	0.100	N/D	0.001	0.001

N/D = Not Detected, A/LOQ = Above LOQ Level, B/LOQ = Below LOQ Level, B/LOD = Below LOD Level

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

Green Scientific Labs info@greenscientificlabs.com 1-833 TEST CBD







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Order #: 48611 Order Name: Original Hemp 1000 Mg Natural Batch#: 46818 Received: 02/10/2020 Completed: 02/13/2020 Arise Bioscience 4855 Technology Way, Suite 500 Boca Raton FL, 33431 (866) 407-1164



RESIDUAL SOLVENTS:

Headspace GCMS - Shimadzu GCMS QP2020 with HS20

GSL SOP 405

Prepared: 02/10/2020 18:21:43 Uploaded: 02/11/2020 07:37:40

Residual Solvent	Action Level (ppm)	Results (ppm)	LOQ (ppm)	LOD (ppm)
ACETONE	5,000	N/D	140	20
ACETONITRILE	410	N/D	25	1
BENZENE	1	N/D	1	0.5
BUTANE	5,000	N/D	50	10
CHLOROFORM	1	N/D	1	0.5
DICHLOROETHANE	1	N/D	1	0.5
DICHLOROMETHANE	1	N/D	1	0.5
ETHANOL	5,000	N/D	140	20
ETHYL ACETATE	5,000	N/D	140	20
ETHYL ETHER	5,000	N/D	140	20
ISOPROPYL ALCOHOL	5,000	N/D	140	20
METHANOL	3,000	N/D	100	20
N-HEPTANE	5,000	N/D	140	20
N-HEXANE	290	N/D	18	10
PENTANE	5,000	N/D	140	20
PROPANE	5,000	N/D	20	1
TOLUENE	890	N/D	53	1
TRICHLOROETHENE	1	N/D	0	0
XYLENES	2,170	N/D	130	20



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Microbial Analysis:

Microbial Analysis GSL SOP 406

Uploaded: 02/12/2020 18:49:20

PCR - Agilent AriaMX Test	Test Method Used	Device Used	LOD	Allowable Criteria	Actual Result	Pass/Fail
STEC E.COLI*	USP 61/62†	ARIAMX PCR	2 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
SALMONELLA*	USP 61/62†	ARIAMX PCR	5 COPIES OF DNA	PRESENCE / ABSENT	BELOW LOD	PASS
ASPERGILLUS	USP 61/62†	ARIAMX PCR	ASP_LOD***	PRESENCE / ABSENT	BELOW LOD	PASS
YEAST AND MOLD	USP 61/62†	ARIAMX PCR	363.05518 CFU/G**	1,000	BELOW THRESHOLD	PASS
TOTAL AEROBIC BACTERIA	USP 61/62†	ARIAMX PCR	0.25316 CFU/G**	10,000	BELOW THRESHOLD	PASS
COLIFORM	USP 61/62†	ARIAMX PCR	3.41539 CFU/G**	100	BELOW THRESHOLD	PASS
ENTEROBACTERIACEAE	USP 61/62†	ARIAMX PCR	0.32951 CFU/G**	100	BELOW THRESHOLD	PASS

[†] USP 61 (enumeration of bacteria TAC, TYM, and ENT/Coliform), USP 62 (identifying specific species E.coli Aspergillus etc) * STEC and Salmonella run as Multiplex

Dr. Andrew Hall, Ph.D., Chief Scientific Officer

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^{**} CFU/g Calculation based on Select Category Type Gummy MIP/Extract Flower matrix

^{***} Flavus = 2 Copies of DNA / Furnigatis = 2 Copies of DNA Niger = 20 Copies of DNA / Terrus = 10 copies of DNA



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Mycotoxin Analysis:

LC-MS - Shimadzu LCMS-8060 GSL SOP 401

Uploaded: 02/11/2020 13:46:46

Analyte	Action LvI (ppb)	Results (ppb)
AFLATOXIN B1	20	N/D
AFLATOXIN B2	20	N/D
AFLATOXIN G1	20	N/D
AFLATOXIN G2	20	N/D
OCHRATOXIN A	20	N/D
AFLATOXIN B1 AFLATOXIN B2 AFLATOXIN G1 AFLATOXIN G2	20 20 20 20 20	N/D N/D N/D N/D

LOQ is 4ppb, LOD is 1ppb

Heavy Metals Analysis:

ICP-MS - Shimadzu ICPMS-2030

GSL SOP 403

Uploaded: 02/11/2020 16:23:19

Metal	Action Level (ppb)	Result (ppb)
ARSENIC (AS)	200	B/LOQ
CADMIUM (CD)	200	B/LOQ
MERCURY (HG)	100	B/LOQ
LEAD (PB)	500	B/LOQ

Lower Limit of Quantitation (LOQ) is 75 ppb

Water Activity:

HD-3A Water Activity Meter - GSL SOP 407

Uploaded: 02/10/2020 16:43:44

Water

0.57

Filth and Foreign Materials Analysis:

Microscope - Amscope Simul-Focal Trinocular Stereo Zoom Microscope - GSL SOP 409

Uploaded: 02/10/2020 16:44:46

Pass: No Foreign Materials Detected

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