



Certificate of Analysis

Product Name: CBD – Hemp – Sound Sleep Tablet – 30ct		Manufacturing Date: 1-15-2021
Formula Code:	CBHECAS20MG30	
Finished Product Code:	053562011A	
Best by Date:	2 Years	

Product Physical Specifications:

Items	Specification	Method	Results
Color/Appearance	Yellow to brown	Organoleptic	Pass
Serving Size	1 tablet	N/A	Pass
Servings Per Container	30	N/A	Pass

Total Metals:

Items	Specification	Method	Results
Lead	<0.5 mcg/serving	AOAC 2011.19 & 993.14	0.353 µg/serving
Cadmium	<4.1 mcg/serving	AOAC 2011.19 & 993.14	0.088 µg/serving
Mercury	<2.0 mcg/serving	AOAC 2011.19 & 993.14	<0.006 µg/serving
Arsenic	<10 mcg/serving	AOAC 2011.19 & 993.14	0.248 µg/serving

Microbiological:

Items	Specification	Method	Results
Aerobic Plate Count	<10,000 CFU/g	USP Ch. 2021	85 (est) CFU/g
Total Coliforms	≤100 CFU/g	AOAC 991.14	<10 CFU/g
<i>E. coli</i>	Negative in 10g	USP Ch. 62	Not Detected / 10g
<i>Salmonella spp.</i>	Negative in 25g	AOAC-RI 121501	Not Detected / 25g
Yeast & Mold	≤1,000 CFU/g	AOAC 97.02	Yeast: 20 (est) CFU/g Mold: <10 CFU/g
<i>Staphylococcus aureus</i>	Negative in 10g	USP Ch. 62	Not Detected / 10g

Analytical:

Items	Specification	Method	Results
Cannabidiol	≥ 20 mg/serving	UHPLC	20.4 mg/serving
Total D9-THC	< 0.03%	UHPLC	0.0397 %
Moisture	< 8%	Karl Fischer	4.66%

Terpenes:

Analyte	%	mg/ml	LOD mg/g	LOQ mg/g
α -Bisabolol	0.0119	0.119	0.0385	0.128
endo-Borneol	<LOQ	<LOQ	0.0177	0.0591
Camphene	ND	ND	0.0171	0.0569
Camphor	ND	ND	0.0226	0.0754
3-Carene	ND	ND	0.0193	0.0642
Caryophyllene Oxide	0.0105	0.105	0.0507	0.169
β -Caryophyllene	0.0114	0.114	0.0267	0.0893
α -Cedrene	ND	ND	0.0167	0.0558
Cedrol	ND	ND	0.0376	0.125
Eucalyptol	ND	ND	0.0192	0.0639
β -Farnesene	ND	ND	0.0351	0.117
Fenchol	<LOQ	<LOQ	0.0207	0.0690
Fenchone	ND	ND	0.0224	0.0747
Geraniol	ND	ND	0.0382	0.127
Geranyl Acetate	ND	ND	0.0323	0.108
Guaiol	ND	ND	0.0588	0.196
α -Humulene	0.00426	0.0426	0.0186	0.0916
Isoborneol	ND	ND	0.0227	0.0758
Isopulegol	ND	ND	0.0321	0.107
Limonene	ND	ND	0.0111	0.0369
Linalool	ND	ND	0.0304	0.101
Menthol	ND	ND	0.0236	0.0786
β -Myrcene	<LOQ	<LOQ	0.0138	0.0459
Nerol	ND	ND	0.0282	0.0938
cis-Nerolidol	ND	ND	0.0202	0.0676
trans-Nerolidol	ND	ND	0.0477	0.159
cis- β -Ocimene	ND	ND	0.0160	0.0533
trans- β -Ocimene	ND	ND	0.0300	0.0998
α -Phellandrene	ND	ND	0.0188	0.0626
α -Pinene	ND	ND	0.0155	0.0516
β -Pinene	ND	ND	0.0146	0.0488
Pulegone	ND	ND	0.0210	0.0699
Sabinene	ND	ND	0.0107	0.0355
Sabinene Hydrate	ND	ND	0.0168	0.0561
α -Terpinene	ND	ND	0.0136	0.0454
γ -Terpinene	ND	ND	0.0155	0.0515
Terpineol	<LOQ	<LOQ	0.0223	0.0745
Terpinolene	ND	ND	0.0409	0.136
Valencene	ND	ND	0.0314	0.105
Total	0.0381	0.381		

Pesticides:

Pesticide	Action Level (E>m)	Results (µg/g)	LOD (µg/g)	LOQ (µg/g)
ABAMECTIN	0.5	Not Detected	0.156	0.518
ACEPHATE	0.4	Not Detected	0.0121	0.0404
ACEQUINOCYL	2	Not Detected	0.173	0.578
ACETAMIPRID	0.2	Not Detected	0.0122	0.0407
ALDICARB	0.4	Not Detected	0.0779	0.260
AZOXYSTROBIN	0.2	Not Detected	0.0110	0.0367
BIFENAZATE	0.2	Not Detected	0.00767	0.0256
BIFENTHRIN	0.2	Not Detected	0.0618	0.206
BOSCALID	0.4	Not Detected	0.0196	0.0653
CARBARYL	0.2	Not Detected	0.00733	0.0244
CARBOFURAN	0.2	Not Detected	0.00862	0.0287
CHLORANTRANILIPROLE	0.2	Not Detected	0.0134	0.0448
CHLORFENAPYR	1	Not Detected	0.0137	0.0403
CHLORPYRIFOS	0.2	Not Detected	0.0125	0.0416
CLOFENTEZINE	0.2	Not Detected	0.0172	0.0574
CYFLUTHRIN	1	Not Detected	0.0211	0.0613
CYPERMETHRIN	1	Not Detected	0.0211	0.0632
DAMINOZIDE	1	Not Detected	0.0251	0.0838
DIAZINON	0.2	Not Detected	0.00891	0.0297
DICHLORVOS	0.1	Not Detected	0.0117	0.0391
DIMETHOATE	0.2	Not Detected	0.0123	0.0411
ETHOPROPHOS	0.2	Not Detected	0.0120	0.0398
ETOFENPROX	0.4	Not Detected	0.0169	0.0564
ETOXAZOLE	0.2	Not Detected	0.0136	0.0455
FENOXYCARB	0.2	Not Detected	0.0109	0.0362
FENPYROXIMATE	0.4	Not Detected	0.00875	0.0292
FIPRONIL	0.4	Not Detected	0.0170	0.0566
FLONICAMID	1	Not Detected	0.0217	0.0822
FLUDIOXONIL	0.4	Not Detected	0.0205	0.0684
GLYPHOSATE	N/A	<100 ng/g	N/A	N/A
HEXYTHIAZOX	1	Not Detected	0.00902	0.0301
IMAZALIL	0.2	Not Detected	0.0200	0.0667
IMIDACLOPRID	0.4	Not Detected	0.00943	0.0314
KRESOXIM-METHYL	0.4	Not Detected	0.00835	0.0278
MALATHION	0.2	Not Detected	0.00580	0.0193
METALAXYL	0.2	Not Detected	0.00856	0.0285
METHIOCARB	0.2	Not Detected	0.00824	0.0275
METHOMYL	0.4	Not Detected	0.0123	0.0411
METHYL PARATHION	0.2	Not Detected	0.0137	0.0403
MGK-264	0.2	Not Detected	0.00183	0.00458
MYCLOBUTANIL	0.2	Not Detected	0.0103	0.0344
NALED	0.5	Not Detected	0.0185	0.0615
OXAMYL	1	Not Detected	0.0174	0.0580
PACLOBUTRAZOL	0.4	Not Detected	0.0146	0.0488
PERMETHRINS	0.2	Not Detected	0.0128	0.0375

PHOSMET	0.2	Not Detected	0.0129	0.0431
PIPERONYL BUTOXIDE	2	Not Detected	0.00848	0.0282
PRALLETHRIN	0.2	Not Detected	0.0281	0.0935
PROPICONAZOLE	0.4	Not Detected	0.00603	0.0201
PROPOXUR	0.2	Not Detected	0.00662	0.0221
PYRETHRINS	1	Not Detected	0.00934	0.0312
PYRIDABEN	0.2	Not Detected	0.0141	0.0470
SPINOSAD	0.2	Not Detected	0.0160	0.0532
SPIROMESIFEN	0.2	Not Detected	0.0139	0.0462
SPIROTETRAMAT	0.2	Not Detected	0.00675	0.0225
SPIROXAMINE	0.4	Not Detected	0.0206	0.0686
TEBUCONAZOLE	0.4	Not Detected	0.00612	0.0204
THIACLOPRID	0.2	Not Detected	0.00718	0.0240
THIAMETHOXAM	0.2	Not Detected	0.00719	0.0240
TRIFLOXYSTROBIN	0.2	Not Detected	0.00885	0.0295

Residual Solvents:

Analyte	Action Limit (µg/g)	Result	LOD µg/g	LOQ µg/g
1-Butanol	5000	Not Detected	61.1	204
1-Pentanol	5000	Not Detected	102	340
1-Propanol	5000	Not Detected	152	507
1,2-Dimethoxyethane	100	Not Detected	81.6	272
1,4-Dioxane	380	Not Detected	79.3	264
2-Butanol	5000	Not Detected	77.3	258
2-Butanone	5000	Not Detected	42.8	143
2-Ethoxyethanol	160	Not Detected	57.1	190
2-Methylbutane	5000	Not Detected	7.34	24.5
2-Methylpentane	290	Not Detected	8.73	29.1
2-Propanol (IPA)	5000	Not Detected	109	351
2,2-Dimethylbutane	290	Not Detected	16.3	54.4
2,3-Dimethylbutane	290	Not Detected	7.10	23.7
3-Methylpentane	290	Not Detected	9.03	30.1
Acetone	5000	Not Detected	171	570
Acetonitrile	410	Not Detected	69.3	208
Benzene	2	Not Detected	1.56	5.19
n-Butane	5000	Not Detected	23.3	23.3
Cumene	70	Not Detected	101	101
Cyclohexane	3880	Not Detected	61.9	61.9
Dichloromethane	600	Not Detected	26.1	26.1
Dimethyl Sulfoxide	5000	Not Detected	52.9	176
Ethanol	5000	Not Detected	74.0	247
Ethyl Acetate	5000	Not Detected	26.6	88.7
Ethyl Ether	5000	Not Detected	9.34	31.1
Ethylene Glycol	620	Not Detected	8.74	29.1
Ethylene Oxide	50	Not Detected	6.16	20.5
n-Heptane	5000	Not Detected	33.7	112
n-Hexane	290	Not Detected	9.73	32.4
Isopropyl Acetate	5000	Not Detected	46.3	154
Methanol	3000	Not Detected	33.2	111
Methylpropane	5000	Not Detected	8.84	29.5
N,N-Dimethylacetamide	1090	Not Detected	61.9	206
N,N-Dimethylformamide	880	Not Detected	83.9	280
n-Pentane	5000	Not Detected	7.76	25.9
Propane	5000	Not Detected	8.78	29.3
Pyridine	200	Not Detected	51.1	170
Sulfolane	160	Not Detected	30.8	103
Tetrahydrofuran	720	Not Detected	36.1	120
Toluene	890	Not Detected	80.6	269
Xylenes	2170	Not Detected	111	370

Signatures:

Megi Qenani
 Megi Qenani
 Director of Research & Quality
 Control

2-1-2021
 Date

Krista Ousley
 Krista Ousley
 Quality Laboratory Lead

2-1-2021
 Date