

BlueLeaf Laboratory 673 N. Bardstown Rd. Mount Washington, KY, 40047 (502) 444-2044 www.blueleaflaboratory.com Lic # 19-05-02P



FACE SCRUB NKYTOB 4521 Matrix: Derivative Certificate Accession Number: 092321UD0004 Harvest/Lot ID: FACE SCRUB NKYTOB 4521 Seed to Sale: * of Batch Date: 09/22/21 Batch #: FACE SCRUB Sample Size Received: 30 ml Retail Product Size: 30 ml Analysis Ordered: 09/22/21 Completed: 09/29/21 Sampling Method: SOP Client Method Sep 29,2021 | Aerosource H aerosoui Kevil, KY, (270) 462-2742 **CANNABINOID RESULTS Total THC** Total CBD Total Cannabinoids 1.477% 0.000% 1.470% СВС **D9-THC** CBD **CBDA CBDV** CBG **CBGA CBN** D8-THC THCA THCV Conc.(wt%) ND 1.470 ND 0.007 ND ND ND ND ND ND ND Conc.(mg/g)ND 14.700 ND 0.070 ND ND ND ND ND ND ND 0.04 LOQ 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 Analyzed by Date Instrument used **Analysis Method** Shimadzu HPLC w/ PDA 09/28/2021 SOP.KY.02.012 DB

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-PDA). SOP.KY.02.005 for sample prep and SOP.KY.02.012 for analysis. % = %w/w = Percent (Weight of Analyte/Weight Product) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected. **Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation Total THC = THC + (THCa*0.877) Total CBD = CBD + (CBDa*0.877)

PASSED

Filth & Foreign Matter

Analyzed by	Date	Instrument used	Analysis Method
DB	09/24/2021	Microscope (Amscope)	SOP.KY.02.011

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and byproducts. An SH-2B/T Stereo Microscope is used for inspection. (Method: SOP.KY.02.011)

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Certificate of Analysis

Aerosource H

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Pesticides

Pesticides										Ρ	AS:	SEC
Pesticides	LLO	Q	Result	Units	Action Level	Pass / Fail	Pesticides	LLOQ	Result	Units	Action Level	Pass / Fail
Abamectin B1a	0.02		ND	ppm	0.5	PASS	Acephate	0.01	ND	ppm	0.4	PASS
Acequinocyl	0.05		ND	ppm	2	PASS	Acetamiprid	0.01	ND	ppm	0.2	PASS
Aldicarb	0.02		ND	ppm	0.4	PASS	Azoxystrobin	0.01	ND	ppm	0.2	PASS
Bifenazate	0.01		ND	ppm	3.0	PASS	Bifenthrin	0.01	ND	ppm	0.2	PASS
Boscalid	0.01		ND	ppm	0.4	PASS	Carbaryl	0.01	ND	ppm	0.2	PASS
Carbofuran	0.01		ND	ppm	0.2	PASS	Chlorantraniliprole	0.01	ND	ppm	0.2	PASS
Chlorpyrifos	0.01		ND	ppm	0.2	PASS	cis-Permethrin	0.0041	ND	ppm	0.4	PASS
Clofentezine	0.01		ND	ppm	0.2	PASS	Coumaphos	0.01	ND	ppm	0.2	PASS
Cypermethrin	0.02		ND	ppm	1	PASS	Daminozide	0.02	ND	ppm	1	PASS
Diazanon	0.01		ND	ppm	0.2	PASS	Dichlorvos	0.05	ND	ppm	0.1	PASS
Dimethoate	0.01		ND	ppm	0.2	PASS	Dimethomorph	0.005	ND	ppm	0.1	PASS
Ethoprophos	0.01		ND	ppm	0.2	PASS	Etofenprox	0.01	ND	ppm	0.4	PASS
Etoxazole	0.01		ND	ppm	0.2	PASS	Fenhexamid	0.005	ND	ppm	0.1	PASS
Fenoxycarb	0.01		ND	ppm	0.2	PASS	Fenpyroximate	0.01	ND	ppm	0.4	PASS
Fipronil	0.02		ND	ppm	0.4	PASS	Flonicamid	0.01	ND	ppm	1	PASS
Fludioxonil	0.01		ND	ppm	0.4	PASS	Hexythiazox	0.01	ND	ppm	1	PASS
Imazalil	0.01		ND	ppm	0.2	PASS	Imidacloprid	0.01	ND	ppm	0.4	PASS
Kresoxim-Methyl	0.01		ND	ppm	0.4	PASS	Malathion	0.01	ND	ppm	0.2	PASS
Metalaxyl	0.01		ND	ppm	0.2	PASS	Methiocarb	0.01	ND	ppm	0.2	PASS
Methomyl	0.01		ND	ppm	0.4	PASS	Mevinphos	0.01	ND	ppm	0.1	PASS
Myclobutanil	0.01		ND	ppm	0.2	PASS	Naled	0.01	ND	ppm	0.5	PASS
Oxamyl	0.01		ND	ppm	1	PASS	Paclobutrazol	0.01	ND	ppm	0.4	PASS
Permethrins (sum)	0.05		ND	ppm	1	PASS	Phosmet	0.01	ND	ppm	0.2	PASS
Piperonyl Butoxide	0.01		ND	ppm	2	PASS	Prallethrin	0.05	ND	ppm	0.2	PASS
Propiconazole	0.01		ND	ppm	0.4	PASS	Propoxur	0.01	ND	ppm	0.2	PASS
Pyrethrin I	0.01		ND	ppm	1	PASS	Pyridaben	0.01	ND	ppm	0.2	PASS
Spinetoram	0.01		ND	ppm	0.5	PASS	Spinosad (Spinosyn A)	0.01	ND	ppm	0.2	PASS
Spinosad (Spinosyn D)	0.01		ND	ppm	0.2	PASS	Spiromesifen	0.01	ND	ppm	0.2	PASS
Spirotetramat	0.02		ND	ppm	0.2	PASS	Spiroxamine	0.01	ND	ppm	0.2	PASS
Febuconazole	0.01		ND	ppm	0.4	PASS	Thiacloprid	0.01	ND	ppm	0.2	PASS
Thiamethoxam	0.01		ND	ppm	0.2	PASS	trans-Permethrin	0.0118	ND	ppm	0.4	PASS
Trifloxystrobin	0.01		ND	ppm	0.2	PASS						
Analyzed by	D	ate		Instrum	ent used		Analysis Metho	d				
DB	09,	/24/2021		Shimadzu LCM	ISMS 8060		SOP.KY.02.022					

Pesticide screening is performed using LC/MS/MS which can screen down to below single digit ppb concentrations for the 57 pesticides analyzed. (Method: SOP.KY.02.022)

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Mycotox	ins									PAS	SED
Analyte	LLOQ	Result	Units	Action Level	Pass / Fail	Analyte	LLOQ	Result	Units	Action Level	Pass / Fail
Aflatoxin B1	0.001	ND	ppm	0.2	PASS	Aflatoxin B2	0.001	ND	ppm	0.2	PASS
Aflatoxin G1	0.001	ND	ppm	0.2	PASS	Aflatoxin G2	0.001	ND	ppm	0.2	PASS
Ocratoxin A+	0.001	ND	ppm	0.2	PASS						
Analyzed by	D	ate	Instru	ıment used		Analysis M	lethod				
DB	09	/24/2021	Shimadzu	LCMSMS 8060		SOP.KY.02.022					

PASSE

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC/MS/MS. (Method: SOP.KY.02.022)

Residual Solvents

Solvents	>				
Solvent	LLOQ	Result	Units	Action Level (PPM)	Pass/Fail
2-Propanol	60	ND	ppm	5000	PASS
Acetone	60	ND	ppm	5000	PASS
Acetonitrile	60	ND	ppm	410	PASS
Butane	200	ND	ppm	5000	PASS
Ethanol	80	ND	ppm	5000	PASS
Ethyl Acetate	60	ND	ppm	5000	PASS
Ethyl Ether	40	ND	ppm	5000	PASS
Heptane	40	ND	ppm	5000	PASS
Hexane	40	ND	ppm	290	PASS
Isobutane	200	ND	ppm	5000	PASS
M/P-Xylene	80	ND	ppm	2170	PASS
Methanol	40	419	ppm	3000	PASS
O-Xylene	40	ND	ppm	2170	PASS
Pentane	60	ND	ppm	5000	PASS
Propane	400	ND	ppm	5000	PASS
Toluene	40	ND	ppm	890	PASS
Total Xylenes	120	ND	ppm	2170	PASS
Analyzed by	Date 09/24/2021	Instru Shimadzu	ment used	Analy SOP.KY.	vsis Method

Residual solvents testing for 16 common extraction solvents is performed via GC/MS. (Method: SOP.KY.02.024)

Heavy	y Metals			PA	SSED
Metal	LLOQ	Result	Unit	Action Level	Pass / Fail
Arsenic	0.2	ND	ppm	2	PASS
Cadmium	0.2	ND	ppm	2	PASS
Lead	0.2	ND	ppm	5	PASS
Mercury	0.2	ND	ppm	1	PASS
Analyzed	by Date	Instr	ument ı	used Ar	alysis Method
– – Heavy Metals scr		using ICP-MS		Coupled Plasma –	Mass Spectrometer) (Method SOP.KY.02.020)
– – Heavy Metals scr	eening is performed	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer) (Method SOP.KY.02.020)
which can screen	eening is performed	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer) (Method SOP.KY.02.020)
Heavy Metals scr which can screen Micro Analyte	bials	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer) (Method SOP.KY.02.020) SSED Resul
Heavy Metals scr which can screen Micro Analyte Aspergillus Flav	reening is performed for toxic heavy metr bials	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer) (Method SOP.KY.02.020) SSEED Resul not present in 1 gran
Heavy Metals scr which can screen Micro Analyte Aspergillus Flav Aspergillus Fur	reening is performed for toxic heavy metr bials vus nigatus	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer) (Method SOP.KY.02.020) SSSED Resul not present in 1 gran not present in 1 gran
Heavy Metals scr which can screen Micro Analyte Aspergillus Flan Aspergillus Flan Aspergillus Nig	reening is performed for toxic heavy metr bials vus nigatus er	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer)
Heavy Metals scr which can screen Micro	reening is performed for toxic heavy metr bials vus nigatus er	using ICP-MS	(Inductively (Coupled Plasma – d, and Mercury).	Mass Spectrometer) (Method SOP.KY.02.020) SSSED Resul not present in 1 gran not present in 1 gran not present in 1 gran

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.KY.02.018) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

PathogenDX

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