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CERTIFICATE OF ANALYSIS

Prepared for:
NuLeaf Naturals
1550 Larimer St, Suite 964
Denver, CO USA 80202

NuLeaf Hemp Balm

Batch ID or Lot Number:	Test:	Reported:	USDA License:
JK5RV	**Potency**	**31Jan2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000233080	30Jan2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	27Jan2023	N/A

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	5.599	17.961	<LOQ	<LOQ	# of Servings = 1, Sample Weight=29.5g
Cannabichromenic Acid (CBCA)	5.121	16.429	ND	ND	
Cannabidiol (CBD)	15.074	49.806	734.640	24.90	
Cannabidiolic Acid (CBDA)	15.461	51.083	ND	ND	
Cannabidivarin (CBDV)	3.565	11.780	ND	ND	
Cannabidivarinic Acid (CBDVA)	6.449	21.309	ND	ND	
Cannabigerol (CBG)	3.179	10.198	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	13.290	42.631	ND	ND	
Cannabinol (CBN)	4.147	13.304	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	9.067	29.086	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	15.833	50.789	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	14.379	46.126	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	12.740	40.867	ND	ND	
Tetrahydrocannabivarin (THCV)	2.892	9.276	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	11.237	36.047	ND	ND	
Total Cannabinoids			**734.640**	**24.90**	
Total Potential THC			0.000	0.00	
Total Potential CBD			734.640	24.90	

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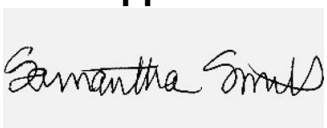

Sam Smith
31Jan2023
04:48:00 PM MST

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Karen Winternheimer
31Jan2023
04:54:00 PM MST

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https://results.botanacor.com/api/v1/coas/uuid/4562e259-7bd7-4982-b92c-0f96ab45ca7b

Definitions
% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).
Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

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NuLeaf Hemp Balm

Batch ID or Lot Number:	Test:	Reported:	USDA License:
JK5RV	**Heavy Metals**	**03Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000233082	02Feb2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	27Jan2023	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.06 - 6.22	ND	
Cadmium	0.06 - 6.37	ND	
Mercury	0.06 - 6.11	ND	
Lead	0.06 - 6.45	ND	

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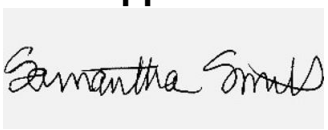

Sam Smith
03Feb2023
06:55:00 AM MST

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Karen Winternheimer
03Feb2023
07:00:00 AM MST

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Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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NuLeaf Naturals
1550 Larimer St, Suite 964
Denver, CO USA 80202

NuLeaf Hemp Balm

Batch ID or Lot Number:	Test:	Reported:	USDA License:
JK5RV	**Pesticides**	**03Feb2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000233081	01Feb2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	27Jan2023	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	292 - 2707	ND
Acephate	45 - 2767	ND
Acetamiprid	44 - 2758	ND
Azoxystrobin	43 - 2747	ND
Bifenazate	39 - 2732	ND
Boscalid	35 - 2700	ND
Carbaryl	45 - 2731	ND
Carbofuran	44 - 2717	ND
Chlorantraniliprole	43 - 2666	ND
Chlorpyrifos	50 - 2713	ND
Clofentezine	270 - 2767	ND
Diazinon	276 - 2752	ND
Dichlorvos	278 - 2771	ND
Dimethoate	41 - 2761	ND
E-Fenpyroximate	289 - 2734	ND
Etofenprox	42 - 2774	ND
Etoxazole	298 - 2712	ND
Fenoxycarb	42 - 2767	ND
Fipronil	51 - 2704	ND
Flonicamid	50 - 2802	ND
Fludioxonil	288 - 2756	ND
Hexythiazox	41 - 2761	ND
Imazalil	263 - 2758	ND
Imidacloprid	44 - 2755	ND
Kresoxim-methyl	41 - 2798	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	289 - 2718	ND
Metalaxyl	44 - 2730	ND
Methiocarb	45 - 2709	ND
Methomyl	41 - 2762	ND
MGK 264 1	168 - 1637	ND
MGK 264 2	120 - 1139	ND
Myclobutanil	43 - 2701	ND
Naled	42 - 2772	ND
Oxamyl	43 - 2764	ND
Paclobutrazol	40 - 2735	ND
Permethrin	280 - 2765	ND
Phosmet	40 - 2744	ND
Prophos	293 - 2662	ND
Propoxur	42 - 2724	ND
Pyridaben	293 - 2751	ND
Spinosad A	35 - 2244	ND
Spinosad D	49 - 498	ND
Spiromesifen	281 - 2750	ND
Spirotetramat	272 - 2754	ND
Spiroxamine 1	20 - 1148	ND
Spiroxamine 2	21 - 1557	ND
Tebuconazole	296 - 2732	ND
Thiacloprid	42 - 2746	ND
Thiamethoxam	42 - 2770	ND
Trifloxystrobin	44 - 2749	ND

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Karen Winternheimer
03Feb2023
09:29:00 AM MST
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Sam Smith
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Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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Denver, CO USA 80202

NuLeaf Hemp Balm

Batch ID or Lot Number:	Test:	Reported:	USDA License:
JK5RV	**Residual Solvents**	**31Jan2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Topical	T000233083	31Jan2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	27Jan2023	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	92 - 1850	ND	
Butanes (Isobutane, n-Butane)	193 - 3854	ND	
Methanol	58 - 1169	ND	
Pentane	97 - 1935	ND	
Ethanol	93 - 1863	ND	
Acetone	95 - 1898	ND	
Isopropyl Alcohol	96 - 1921	ND	
Hexane	6 - 117	ND	
Ethyl Acetate	97 - 1930	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	103 - 2066	ND	
Toluene	18 - 358	ND	
Xylenes (m,p,o-Xylenes)	132 - 2643	ND	

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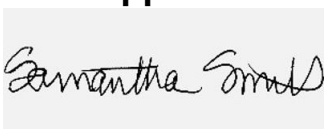

Sam Smith
31Jan2023
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Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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