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CERTIFICATE OF ANALYSIS

CUSTOMER:	HOLUS	SAMPLE SIZE:	1 g
PRODUCT NAME:	HOLUS TF KEY LIME TINCTURE	CERTIFICATION DATE:	13NOV19
PACKAGE SIZE:	30 ml	MANUFACTURE DATE:	13NOV19
LOT NUMBER:	1904NM0620002	RECERTIFICATION DATE:	N/A
DESCRIPTION	1000 mg CBD, THC FREE, KEY LIME FLAVORED TINCTURE		
EXPIRATION DATE:	NOV 2020		
STORAGE CONDITIONS:	KEEP AWAY FROM EXPOSURE TO LIGHT.		

CANNABINOID NAME	% POTENCY	CONC. mg/g
CANNABIDIOLIC ACID (CBDa)	0.00	0.00
CANNABIDIOL (CBD)	3.40	34.0
TOTAL CBD	3.40	34.0
TOTAL THC	0.00	0.00

TEST DESCRIPTION	SPECIFICATION	RESULTS	STATUS
ASSAY (BY HPLC)	TOTAL CANNABIDIOL	AS REPORTED	PASS
APPEARANCE	CLEAR LIQUID	CLEAR LIQUID	PASS
SOLUBILITY	SPARINGLY SOLUBLE IN WATER	N/A	N/A
ORGANOLEPTIC	SMELL MATCHES SCENT/FLAVOR	MILD KEY LIME SMELL	PASS

PESTICIDES									
ANALYTE	Result (PPM)	ACTION LEVEL (PPM)	LOQ (PPM)	Status	ANALYTE	Result (PPM)	ACTION LEVEL (PPM)	LOQ (PPM)	Status
ABAMECTIN	<LOQ	0.500	0.100	PASS	IMAZALIL	<LOQ	0.200	0.100	PASS
ACEPHATE	<LOQ	0.400	0.100	PASS	IMIDACLOPRID	<LOQ	0.400	0.100	PASS
ACEQUINOCYL	<LOQ	2.000	0.750	PASS	KRESOXIM METHYL	<LOQ	0.400	0.100	PASS

811 Pine St.
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 651.464.2822



PESTICIDES									
ANALYTE	Result (PPM)	ACTION LEVEL (PPM)	LOQ (PPM)	Status	ANALYTE	Result (PPM)	ACTION LEVEL (PPM)	LOQ (PPM)	Status
ALDICARB	<LOQ	0.400	0.100	PASS	METALAXYL	<LOQ	0.200	0.100	PASS
AZOXYSTROBIN	<LOQ	0.200	0.100	PASS	METHIOCARB	<LOQ	0.200	0.100	PASS
BOSCALID	<LOQ	0.200	0.100	PASS	METHOMYL	<LOQ	0.400	0.100	PASS
BIFENAZATE	<LOQ	0.400	0.100	PASS	MGK-264	<LOQ	0.200	0.100	PASS
BIFENTHRIN	<LOQ	0.200	0.100	PASS	MYCLOBUTANIL	<LOQ	0.200	0.100	PASS
CARBARYL	<LOQ	0.200	0.100	PASS	NALED	<LOQ	0.500	0.100	PASS
CARBOFURAN	<LOQ	0.200	0.100	PASS	OXAMYL	<LOQ	1.000	0.100	PASS
CHLORANTRANILIPROLE	<LOQ	0.200	0.100	PASS	PACLOBUTRAZOL	<LOQ	0.400	0.100	PASS
CHLORPYRIFOS	<LOQ	0.200	0.100	PASS	PARATHION- METHYL	<LOQ	0.200	0.250	PASS
CLOFENTEZINE	<LOQ	0.200	0.100	PASS	PERMETHRIN	<LOQ	0.200	0.100	PASS
CYPERMETHRIN	<LOQ	1.000	0.100	PASS	PHOSMET	<LOQ	0.200	0.100	PASS
DAMINOZIDE	<LOQ	1.000	0.100	PASS	PIPERONYLBUTOXIDE	<LOQ	2.000	0.100	PASS
DIAZINON	<LOQ	0.200	0.100	PASS	PRALLETHRIN	<LOQ	0.200	0.100	PASS
DICHLORVOS	<LOQ	0.100	0.100	PASS	PROPICONAZOLE	<LOQ	0.400	0.100	PASS
DIMETHOATE	<LOQ	0.200	0.100	PASS	PROPOXUR	<LOQ	0.200	0.100	PASS
ETHOPROPHOS	<LOQ	0.200	0.100	PASS	PYRETHRINS	<LOQ	1.000	0.100	PASS
ETOXAZOLE	<LOQ	0.400	0.100	PASS	PYRIDABEN	<LOQ	0.200	0.100	PASS
FENOXICARB	<LOQ	0.200	0.100	PASS	SPINOSYN A	<LOQ	0.200	0.100	PASS
FIPRONIL	<LOQ	0.400	0.100	PASS	SPINOSYN D	<LOQ	0.200	0.100	PASS
FLONICAMID	<LOQ	1.000	0.100	PASS	SPIROMESIFEN	<LOQ	0.200	0.100	PASS
FLUDIOXONIL	<LOQ	0.400	0.100	PASS	TEBUCONAZOLE	<LOQ	0.400	0.100	PASS
HEXYTHIAZOX	<LOQ	1.000	0.100	PASS	THIACLOPRID	<LOQ	0.200	0.100	PASS
HEXYTHIAZOX	<LOQ	1.000	0.100	PASS	THIAMETHOXAM	<LOQ	0.200	0.100	PASS
SPIROTETRAMAT	<LOQ	0.200	0.100	PASS	TRIFLOXYSTROBIN	<LOQ	0.200	0.100	PASS
SPIROXAMINE	<LOQ	0.400	0.100	PASS					

HEAVY METALS				
ANALYTE	RESULT (PPB)	ACTION LEVEL (PPB)	LOQ (PPB)	STATUS
ARSENIC (As)	<LOQ	500.0	100.0	PASS
CADMIUM (Cd)	<LOQ	500.0	100.0	PASS
LEAD (Pb)	<LOQ	500.0	100.0	PASS
MERCURY (Hg)	<LOQ	500.0	100.0	PASS

MYCOTOXINS				
ANALYTE	RESULT (PPB)	ACTION LEVEL (PPB)	LOQ (PPB)	STATUS
AFLATOXIN B1	<LOQ		6.0	PASS
AFLATOXIN B2	<LOQ		6.0	PASS
AFLATOXIN G1	<LOQ		6.0	PASS
AFLATOXIN G2	<LOQ		6.0	PASS
AFLATOXIN TOTAL	<LOQ	20.0	6.0	PASS
OCHRATOXIN A	<LOQ	20.0	12.0	PASS

MICROBIOLOGY		
ANALYTE	RESULTS	STATUS
ASPERGILLUS FLAVUS	ABSENCE	PASS
ASPERGILLUS FUMIGATUS	ABSENCE	PASS
ASPERGILLUS NIGER	ABSENCE	PASS
ASPERGILLUS TERREUS	ABSENCE	PASS



SALMONELLA	ABSENCE	PASS
STEC E. COLI	ABSENCE	PASS

RESIDUAL SOLVENTS				
ANALYTE	RESULTS (PPB)	ACTION LEVEL (PPB)	LOQ (PPB)	STATUS
ACETONE	<LOQ	5000	87.9	PASS
BENZENE	<LOQ	1.6	1.6	PASS
CHLOROFORM	<LOQ	53	53.0	PASS
ETHANOL	<LOQ	5,000	26.7	PASS
HEXANE	<LOQ	60	36.6	PASS
I-BUTANE	<LOQ	5,000	100.0	PASS
ISOPROPANOL	<LOQ	5,000	52.3	PASS
METHANOL	<LOQ	3,000	87.9	PASS
N-BUTANE	<LOQ	5,000	200.0	PASS
PENTANE	<LOQ	5,000	389.5	PASS
TOLUENE	<LOQ	890	38.4	PASS

QUALITY APPROVED

DATE: 13NOV19

QUALITY MANAGER, NANCY CARTER

Nancy H. Carter

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