

CERTIFICATE OF ANALYSIS

* FOR QUALITY ASSURANCE PURPOSES. NOT A CALIFORNIA COMPLIANCE CERTIFICATE.

PRODUCED: NOV 09, 2020

SAMPLE: PANAKEIA (INDUSTRIAL HEMP) // **CLIENT:** PRIDE ANALYTICS AND CONSULTING, WI LLC // **BATCH:** PASS
FERGUNER FARM



BATCH NO.: PAC6269
MATRIX: INDUSTRIAL HEMP
CATEGORY: OTHER
SAMPLE ID: 2011PAC073.126
COLLECTED ON: NOV 03, 2020
RECEIVED ON: NOV 03, 2020
BATCH SIZE: 12.75 GRAMS
SAMPLE SIZE: 12.75 GRAMS
SAMPLED BY: AUSTIN RUSSELL



BATCH RESULT: PASS

FOREIGN	PASS	PESTICIDES	PASS
METALS	PASS	TERPENES	TESTED
MICROBIAL	PASS	WATER	TESTED
MYCOTOXINS	PASS		

004: TERPENES BY GC-MS // NOV 05, 2020

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL	ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	0.1125 %	1.125 mg/g		N/A	EUCALYPTOL	ND	ND	0.0038/0.0121	N/A
GUAIOL	0.0589 %	0.589 mg/g	0.0045/0.0142	N/A	α-OCIMENE	ND	ND		N/A
TRANS-CARYOPHYLLENE	0.0325 %	0.325 mg/g		N/A	Δ ³ -CARENE	ND	ND	0.0024/0.0078	N/A
α-BISABOLOL	0.0168 %	0.168 mg/g	0.0166/0.0527	N/A	CIS-NEROLIDOL	ND	ND	0.0055/0.0175	N/A
β-MYRCENE	0.0028 %	0.028 mg/g	0.0039/0.0124	N/A	CIS-β-OCIMENE	ND	ND		N/A
LIMONENE	0.0015 %	0.015 mg/g	0.0029/0.0094	N/A	CARYOPHYLLENE OXIDE	ND	ND	0.006/0.019	N/A
γ-TERPINENE	ND	ND	0.0036/0.0115	N/A	CAMPHERE	ND	ND	0.0027/0.0085	N/A
TERPINOLENE	ND	ND	0.0029/0.0091	N/A	β-PINENE	ND	ND	0.003/0.0095	N/A
P-CYMENE	ND	ND		N/A	α-TERPINENE	ND	ND	0.0038/0.0121	N/A
LINALOOL	ND	ND	0.0018/0.0056	N/A	α-PINENE	ND	ND	0.0032/0.0103	N/A
ISOPULEGOL	ND	ND	0.0093/0.0295	N/A	TRANS-NEROLIDOL	ND	ND	0.0053/0.0168	N/A
GERANIOL	ND	ND	0.0026/0.0081	N/A					



RESULTS CERTIFIED BY: ROBERT GOLDMAN,
PH.D.
LAB DIRECTOR, PRIDE ANALYTICS AND
CONSULTING
NOV 09, 2020



002: PESTICIDES BY LC-MS/MS-APCI // NOV 06, 2020

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CHLORDANE	Any amt	ND	0.0249/0.0792	PASS	METHYL PARATHION	Any amt	ND	0.002/0.05	PASS
CHLORFENAPYR	Any amt	ND	0.0025/0.05	PASS	PENTACHLORONI-TROBENZENE	0.2 µg/g	ND	0.0026/0.05	PASS

002: PESTICIDES BY LC-MS/MS-ESI // NOV 06, 2020

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.3 µg/g	ND	0.0284/0.0902	PASS	MALATHION	5 µg/g	ND	0.0016/0.05	PASS
ACEPHATE	5 µg/g	ND	0.0108/0.05	PASS	METALAXYL	15 µg/g	ND	0.0007/0.05	PASS
ACEQUINOCYL	4 µg/g	ND	0.0122/0.05	PASS	METHIOCARB	Any amt	ND	0.001/0.05	PASS
ACETAMIPRID	5 µg/g	ND	0.0007/0.05	PASS	METHOMYL	0.1 µg/g	ND	0.0041/0.05	PASS
ALDICARB	Any amt	ND	0.0076/0.05	PASS	MEVINPHOS	Any amt	ND	0.0038/0.05	PASS
AZOXYSTROBIN	40 µg/g	ND	0.0011/0.05	PASS	MYCLOBUTANIL	9 µg/g	ND	0.0043/0.05	PASS
BIFENAZATE	5 µg/g	ND	0.0013/0.05	PASS	NALED	0.5 µg/g	ND	0.0064/0.05	PASS
BIFENTHRIN	0.5 µg/g	ND	0.0141/0.05	PASS	OXAMYL	0.2 µg/g	ND	0.0011/0.05	PASS
BOSCALID	10 µg/g	ND	0.0057/0.05	PASS	PACLOBUTRAZOL	Any amt	ND	0.0024/0.05	PASS
CAPTAN	5 µg/g	ND	0.1034/0.3288	PASS	PERMETHRIN	20 µg/g	ND	0.0079/0.05	PASS
CARBARYL	0.5 µg/g	ND	0.001/0.05	PASS	PHOSMET	0.2 µg/g	ND	0.0043/0.05	PASS
CARBOFURAN	Any amt	ND	0.0019/0.05	PASS	PIPERONYLBUTOXIDE	8 µg/g	ND	0.0023/0.05	PASS
CHLORANTRANILIPROLE	40 µg/g	ND	0.0015/0.05	PASS	PRALLETHRIN	0.4 µg/g	ND	0.0094/0.05	PASS
CHLORPYRIFOS	Any amt	ND	0.0023/0.05	PASS	PROPICONAZOLE	20 µg/g	ND	0.0018/0.05	PASS
CLOFENTHIZINE	0.5 µg/g	ND	0.0091/0.05	PASS	PROPOXUR	Any amt	ND	0.002/0.05	PASS
COUMAPHOS	Any amt	ND	0.0015/0.05	PASS	PYRETHRINS	1 µg/g	ND		PASS
CYFLUTHRIN	1 µg/g	ND	0.4112/1.3075	PASS	PYRETHRINS CINERIN I		ND	0.0011/0.0014	N/A
CYPERMETHRIN	1 µg/g	ND	0.0925/0.2942	PASS	PYRETHRINS CINERIN II		ND	0.0013/0.0009	N/A
DAMINOZIDE	Any amt	ND	0.0127/0.05	PASS	PYRETHRINS JASMOLIN I		ND	0.0018/0.0009	N/A
DIAZINON	0.2 µg/g	ND	0.001/0.05	PASS	PYRETHRINS JASMOLIN II		ND	0.0004/0.0006	N/A
DICHLORVOS	Any amt	ND	0.0021/0.05	PASS	PYRETHRINS PYRETHRIN I		ND	0.0013/0.0133	N/A
DIMETHOATE	Any amt	ND	0.001/0.05	PASS	PYRETHRINS PYRETHRIN II		ND	0.0011/0.0066	N/A
DIMETHOMORPH	20 µg/g	ND	0.0007/0.05	PASS	PYRIDABEN	3 µg/g	ND	0.0006/0.05	PASS
ETHOPROPHOS	Any amt	ND	0.0017/0.05	PASS	SPINETORAM	3 µg/g	ND		PASS
ETOFENPROX	Any amt	ND	0.0024/0.05	PASS	SPINETORAM J		ND	0.0019/0.04	N/A
ETOXAZOLE	1.5 µg/g	ND	0.0026/0.05	PASS	SPINETORAM L		ND	0.0005/0.0095	N/A
FENHEXAMID	10 µg/g	ND	0.0028/0.05	PASS	SPINOSAD	3 µg/g	ND		PASS
FENOXYCARB	Any amt	ND	0.0043/0.05	PASS	SPINOSAD A		ND	0.0056/0.0413	N/A
FENPYROXIMATE	2 µg/g	ND	0.0037/0.05	PASS	SPINOSAD D		ND	0.0018/0.0087	N/A
FIPRONIL	Any amt	ND	0.0017/0.05	PASS	SPIROMESIFEN	12 µg/g	ND	0.0033/0.05	PASS
FLONICAMID	2 µg/g	ND	0.0063/0.05	PASS	SPIROTETRAMAT	13 µg/g	ND	0.0045/0.05	PASS
FLUDIOXONIL	30 µg/g	ND	0.0016/0.05	PASS	SPIROXAMINE	Any amt	ND	0.0012/0.05	PASS
HEXYTHIAZOX	2 µg/g	ND	0.0049/0.05	PASS	TEBUCONAZOLE	2 µg/g	ND	0.0078/0.05	PASS
IMAZALIL	Any amt	ND	0.0059/0.05	PASS	THIACLOPRID	Any amt	ND	0.001/0.05	PASS
IMIDACLOPRID	3 µg/g	ND	0.003/0.05	PASS	THIAMETHOXAM	4.5 µg/g	ND	0.0021/0.05	PASS
KRESOXIM-METHYL	1 µg/g	ND	0.0079/0.05	PASS	TRIFLOXYSTROBIN	30 µg/g	ND	0.0034/0.05	PASS



006: MICROBIAL CONTAMINANTS BY DNA MICROARRAY // NOV 05, 2020

ANALYTE	LIMIT	AMT (CFU)	PASS/FAIL	ANALYTE	LIMIT	AMT (CFU)	PASS/FAIL
ASPERGILLUS FLAVUS		Detected	N/A	ASPERGILLUS TERREUS		ND	N/A
ASPERGILLUS FUMIGATUS		ND	N/A	SALMONELLA SPP.	Any amt in 1 gram	ND	PASS
ASPERGILLUS NIGER		ND	N/A	SHIGA TOXIN-PRODUCING E. COLI	Any amt in 1 gram	ND	PASS

002: MYCOTOXINS BY LC-MS/MS-ESI // NOV 06, 2020

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	0.8221/5	N/A	AFLATOXIN G2		ND	1.2958/5	N/A
AFLATOXIN B2		ND	0.9027/5	N/A	AFLATOXINS	20 µg/kg	ND		PASS
AFLATOXIN G1		ND	0.9497/5	N/A	OCHRATOXIN A	20 µg/kg	ND	4.1145/13.083	PASS

005: HEAVY METALS BY ICP-MS // NOV 05, 2020

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	0.0498	0.0082/0.026	PASS	LEAD	0.5 µg/g	0.1530	0.0162/0.0514	PASS
CADMIUM	0.5 µg/g	0.0513	0.0063/0.0202	PASS	MERCURY	3 µg/g	0.0073	0.003/0.0095	PASS

009: WATER ACTIVITY BY WATER ACTIVITY METER // NOV 04, 2020

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY		0.2520	N/A

010: FOREIGN MATERIAL INSPECTION BY MICROSCOPE // NOV 03, 2020

ANALYTE	LIMIT	AMT (%)	PASS/FAIL	ANALYTE	LIMIT	AMT (%)	PASS/FAIL
CINDERS	25 %	ND	PASS	MOLD	25 %	ND	PASS
DIRT	25 %	ND	PASS	RODENT HAIR	1 Unit	ND	PASS
IMBEDDED FOREIGN MATERIAL	25 %	ND	PASS	SAND	25 %	ND	PASS
INSECT FRAGMENTS	1 Unit	ND	PASS	SOIL	25 %	ND	PASS
MAMMAL EXCREMENT	1 Unit	ND	PASS				

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