

CERTIFICATE OF ANALYSIS



SAMPLE INFORMATION

Sample Name: Super Jack SO Hipax
Sample Id: 111316
Collected: 05/15/2019 12:40
Batch Size: 2910 units
Overall Result: **Pass**

Sample Matrix: Concentrate
Batch Id: 5020-B
Received: 05/16/2019 14:06
Sample Size: 36 units

DISTRIBUTOR INFO

Business Name: California Loyal
Street Addr. Cont.: Unit 200
State: CA
License: C11-18-0000161-TEMP

Street Address: 1017 22nd Ave
City: Oakland
Zip Code: 94606

CULTIVATOR INFO

Business Name: Starlight Resources
City: Sacramento
Zip Code: 95822

Street Address: 108 Otto Circle
State: ca
License: CDPH- 10002405

CANNABINOID ANALYSIS

i Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: 762.8 mg/g (76.28 %)
TOTAL CBD: 6.968 mg/g (0.6968 %)
TOTAL CANNABINOIDS: 835.6 mg/g (83.56 %)

TEST TYPE RESULT: N/A
UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

ANALYTE	RESULT	LOD	LLOQ	ANALYTE	RESULT	LOD	LLOQ
D9THC	762.8 mg/g (76.28 %)	0.5000	1.0000	D8THC	ND	0.5000	1.0000
THCa	ND	0.5000	1.0000	CBG	27.23 mg/g (2.723 %)	0.5000	1.0000
CBN	10.39 mg/g (1.039 %)	0.5000	1.0000	CBD	6.968 mg/g (0.6968 %)	0.5000	1.0000
CBDa	ND	0.5000	1.0000	CBGa	ND	0.5000	1.0000
THCv	11.61 mg/g (1.161 %)	0.5000	1.0000	CBC	16.62 mg/g (1.662 %)	0.5000	1.0000
CBDv	ND	0.5000	1.0000				

ADDITIONAL INFORMATION

Method: SOP-TECH-001
Instrument: HPLC-DAD

Sample Prepped 05/16/2019 19:24
Sample Analyzed 05/16/2019 19:24

Sample Approved 05/17/2019 10:13



CERTIFICATE OF ANALYSIS

CHEMICAL RESIDUE ANALYSIS

TEST TYPE RESULT: **Pass**
UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Acephate	ND	0.0200	0.0400	0.1000 Pass	Acequinocyl	ND	0.0200	0.0400	0.1000 Pass
Acetamiprid	ND	0.0200	0.0400	0.1000 Pass	Aldicarb	ND	0.0200	0.0400	0.0 Pass
Azoxystrobin	ND	0.0200	0.0400	0.2000 Pass	Bifenazate	ND	0.0200	0.0400	0.1000 Pass
Bifenthrin	ND	0.0200	0.0400	3.000 Pass	Boscalid	0.0412 ug/g	0.0200	0.0400	0.1000 Pass
Carbaryl	ND	0.0200	0.0400	0.5000 Pass	Carbofuran	ND	0.0200	0.0400	0.0 Pass
Chlorantraniliprole	ND	0.0200	0.0400	10.00 Pass	Chlorfenapyr	ND	0.0200	0.0400	0.0 Pass
Chlorpyrifos	ND	0.0200	0.0400	0.0 Pass	Clofentezine	ND	0.0200	0.0400	0.1000 Pass
Cypermethrin	ND	0.0400	0.1000	1.000 Pass	Daminozide	ND	0.0200	0.0400	0.0 Pass
Dichlorvos	ND	0.0200	0.0400	0.0 Pass	Diazinon	ND	0.0200	0.0400	0.1000 Pass
Dimethoate	ND	0.0200	0.0400	0.0 Pass	Ethoprophos	ND	0.0200	0.0400	0.0 Pass
Etofenprox	ND	0.0200	0.0400	0.0 Pass	Etoxazole	ND	0.0200	0.0400	0.1000 Pass
Fenoxycarb	ND	0.0200	0.0400	0.0 Pass	Fenpyroximate	ND	0.0200	0.0400	0.1000 Pass
Fipronil	ND	0.0200	0.0400	0.0 Pass	Flonicamid	ND	0.0200	0.0400	0.1000 Pass
Fludioxonil	ND	0.0200	0.0400	0.1000 Pass	Hexythiazox	ND	0.0200	0.0400	0.1000 Pass
Imazalil	ND	0.0200	0.0400	0.0 Pass	Imidacloprid	ND	0.0200	0.0400	5.000 Pass
KresoximMethyl	ND	0.0200	0.0400	0.1000 Pass	Malathion	ND	0.0200	0.0400	0.5000 Pass
Metalaxyl	ND	0.0200	0.0400	2.000 Pass	Methiocarb	ND	0.0200	0.0400	0.0 Pass
Methomyl	ND	0.0200	0.0400	1.000 Pass	Myclobutanil	ND	0.0200	0.0400	0.1000 Pass
Naled	ND	0.0200	0.0400	0.1000 Pass	Oxamyl	ND	0.0200	0.0400	0.5000 Pass
Paclobutrazol	ND	0.0200	0.0400	0.0 Pass	Phosmet	ND	0.0200	0.0400	0.1000 Pass
PiperonylButoxide	ND	0.0200	0.0400	3.000 Pass	Prallethrin	ND	0.0200	0.0400	0.1000 Pass
Propoxur	ND	0.0200	0.0400	0.0 Pass	Pyridaben	ND	0.0200	0.0400	0.1000 Pass
Spiromesifen	ND	0.0200	0.0400	0.1000 Pass	Spirotetramat	ND	0.0200	0.0400	0.1000 Pass
Spiroxamine	ND	0.0200	0.0400	0.4000 Pass	Tebuconazole	ND	0.0200	0.0400	0.1000 Pass
Thiacloprid	ND	0.0200	0.0400	0.0 Pass	Thiamethoxam	ND	0.0200	0.0400	5.000 Pass
Trifloxystrobin	ND	0.0200	0.0400	0.1000 Pass	Abamectin	ND	0.0200	0.0400	0.1000 Pass
Cyfluthrin	ND	0.1000	0.2000	2.000 Pass	Permethrins	ND	0.0200	0.0400	0.5000 Pass
Propiconazole	ND	0.0200	0.0400	0.1000 Pass	Pyrethrins	ND	0.0178	0.0356	0.5000 Pass
Spinosad	ND	0.0200	0.0400	0.1000 Pass	Coumaphos	ND	0.0200	0.0400	0.0 Pass
Fenhexamid	ND	0.0200	0.0400	0.1000 Pass	Spinetoram	ND	0.0200	0.0400	0.1000 Pass
Dimethomorph	ND	0.0099	0.0198	2.000 Pass	Mevinphos	ND	0.0100	0.0200	0.0 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-002
Instrument: UPLC-MSMS

Sample Prepped 05/16/2019 17:54
Sample Analyzed 05/16/2019 17:58

Sample Approved 05/18/2019 10:33



CERTIFICATE OF ANALYSIS



CHEMICAL RESIDUE GC ANALYSIS

TEST TYPE RESULT:

Pass

UNIT OF MEASUREMENT:

Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Chlordane	ND	0.0400	0.1000	0.0	Captan	ND	0.1000	0.2000	0.7000
PCNB	ND	0.0200	0.0400	0.1000	MethylParathion	ND	0.0400	0.1000	0.0

ADDITIONAL INFORMATION

Method: SOP-LAB-007
Instrument: GC-MS/MS

Sample Prepped 05/16/2019 17:53
Sample Analyzed 05/16/2019 17:57

Sample Approved 05/17/2019 11:54



RESIDUAL SOLVENT ANALYSIS

TEST TYPE RESULT:

Pass

UNIT OF MEASUREMENT:

Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Chloroform	ND	1.000	2.500	1.000	Acetone	ND	2.500	5.000	5000
Methanol	ND	1.000	2.500	3000	Ethanol	31.34 ug/g	1.000	2.500	5000
Benzene	ND	1.000	2.500	1.000	Toluene	ND	0.2500	0.5000	890.0
Pentane	ND	1.000	2.500	5000	Hexane	ND	0.2500	0.5000	290.0
Heptane	ND	0.2500	0.5000	5000	Ethyl Acetate	ND	2.500	5.000	5000
Propane	ND	5.000	10.00	5000	Acetonitrile	ND	0.5000	1.000	410.0
Ethyl Ether	ND	10.00	50.00	5000	1,2-Dichloroethane	ND	0.2500	0.5000	1.000
Butane	ND	24.00	48.00	5000	Methylene chloride	ND	0.2500	0.5000	1.000
Ethylene oxide	ND	0.5000	1.000	1.000	Isopropyl Alcohol	ND	0.2500	0.5000	5000
Trichloroethylene	ND	0.2500	0.5000	1.000	Xylenes	ND	0.5000	1.000	2170

ADDITIONAL INFORMATION

Method: SOP-TECH-003
Instrument: HS-GC-MS-FID

Sample Prepped 05/16/2019 16:18
Sample Analyzed 05/16/2019 16:40

Sample Approved 05/17/2019 14:05





CERTIFICATE OF ANALYSIS



MICROBIAL ANALYSIS

TEST TYPE RESULT:

Pass

UNIT OF MEASUREMENT:

Cycle Threshold (Ct)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
A.fumigatus	ND	33.00	0.0	0.0	A. flavus	ND	33.00	0.0	0.0
A. niger	ND	33.00	0.0	0.0	A. terreus	ND	33.00	0.0	0.0
STEC	ND	33.00	0.0	0.0	Salmonella spp	ND	33.00	0.0	0.0

ADDITIONAL INFORMATION

Method: SOP-LAB--00?
Instrument: qPCR

Sample Prepped 05/17/2019 06:13
Sample Analyzed 05/17/2019 06:17

Sample Approved 05/17/2019 13:59



FILTH & FOREIGN MATERIAL

TEST TYPE RESULT:

Pass

UNIT OF MEASUREMENT:

Filth and Foreign Matter (%)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
SSCD	ND	0.0	0.0	25.00	Mold	ND	0.0	0.0	25.00
IF RH ME	ND	0.0	0.0	3.000	IFM	ND	0.0	0.0	25.00

ADDITIONAL INFORMATION

Method: SOP-LAB-007
Instrument: Magnifying Glass

Sample Prepped 05/17/2019 12:16
Sample Analyzed 05/17/2019 12:18

Sample Approved 05/17/2019 12:47



HEAVY METALS

TEST TYPE RESULT:

Pass

UNIT OF MEASUREMENT:

Micrograms per Gram(ug/g)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Lead	0.0889 ug/g	0.0	0.0050	0.5000	Mercury	<LLOQ	0.0	0.0050	0.1000
Arsenic	0.0081 ug/g	0.0	0.0050	0.2000	Cadmium	<LLOQ	0.0	0.0050	0.2000

ADDITIONAL INFORMATION

Method: SOP-TECH-008
Instrument: ICP-MS

Sample Prepped 05/17/2019 06:43
Sample Analyzed 05/17/2019 09:45

Sample Approved 05/17/2019 15:25



CERTIFICATE OF ANALYSIS

MYCOTOXINS

TEST TYPE RESULT: **Pass**
UNIT OF MEASUREMENT: Micrograms per Kilogram(ug/kg)

ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL	ANALYTE	RESULT	LOD	LLOQ	ACTION LEVEL
Aflatoxins-B1-2-G1-2	ND	10.00	14.00	20.00 Pass	Ochratoxin A	ND	1.000	2.000	20.00 Pass

ADDITIONAL INFORMATION

Method: SOP-TECH-009
Instrument: UPLC-MSMS

Sample Prepped 05/16/2019 17:53
Sample Analyzed 05/16/2019 17:58

Sample Approved 05/17/2019 11:23

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

DATA REVIEWED AND APPROVED BY



05/18/2019

Swetha Kaul, PhD
Chief Scientific Officer

Date

