MMJ Apothocary (Flow Distribution)
2 N. 35th Ave.
Phoenix AZ, 85009
(602) 833-9774
License #:
00000100ESEC12878172

Certificate Of Analysis

ISO/IEC 17025:2017 Accreditation #103104
License #: 00000020LCVT89602592

Order Information

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4

Harvest/Lot ID: PR-KNG-062122-4
Seed-to-Sale #:

Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Batch Information

Create date: 06/21/2022
Exp. date: 06/21/2023

Size: N/A
Total qty: N/A

Matrix: Pre-Roll
Pickup Weight: 13

Dispensary Licensee Information

Cultivation Facility: PHX

Processing facility: PHX

Cultivar(s): PHX

COMPLIANCE FOR RETAIL

43.892%
*Total THC**

0.153%
*Total CBD**

REGULATED ANALYTES

Potency Label Claim	Microbial Contaminants	Residual Solvents	Pesticides, Fungicides, Growth Regulators
Not Applicable	Microbial: Pass Mycotoxins: Pass	Pass	Pass

Herbicides	Heavy Metals
Pass	Pass

ADDITIONAL ANALYTES (NOT REGULATED)

Terpenes	Moisture Content	Water Activity	Filth & Foreign
Not Tested	Tested	Not Tested	Not Tested

Homogeneity
Not Tested

*Reports value as dry weight unless specified otherwise

Ahmed Munshi
Lab Director

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Phoenix, AZ 85013
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License #: 00000020LCVT89602592

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/24/2022 16:30:18
Tech: Madison Levy (3689)
SOP: 417.AZ
Final Weight (g): 0.042g
Volume (mL): 40mL

Sample Prep
Date/Time: 06/24/2022 15:52:06
Tech: Eric Dykes (3988)
SOP: 418.AZ

Internal Batch
Batch Number 103586
Date: 06/24/2022

CANNABINOID POTENCY (CERTIFIED):

HPLC-DAD

Cannabinoids	LOQ (mg/g)	LOD (mg/g)	Dilution	12% moisture	Actual %	Dry weight (%)	mg/g	Qualifiers
D9-THC	0.3908	0.1290	1	**24.152%**	**24.174%**	**27.445%**	**241.740**	
THCA	0.3908	0.1290	1	**16.502%**	**16.517%**	**18.753%**	**165.173**	
CBD	0.3908	0.1290	1	**0.083%**	**0.083%**	**0.095%**	**0.834**	
CBDA	0.3908	0.1290	1	**0.059%**	**0.059%**	**0.066%**	**0.586**	
CBDV	0.3908	0.1290	1	N/D	N/D	N/D	N/D	
CBC	0.3908	0.1290	1	**0.506%**	**0.506%**	**0.575%**	**5.061**	
CBN	0.3908	0.1290	1	**0.222%**	**0.222%**	**0.252%**	**2.223**	
CBG	0.3908	0.1290	1	**1.211%**	**1.212%**	**1.376%**	**12.116**	
CBGA	0.3908	0.1290	1	**0.999%**	**1.000%**	**1.136%**	**10.003**	
D8-THC	0.3908	0.1290	1	N/D	N/D	N/D	N/D	
THCV	0.3908	0.1290	1	**0.210%**	**0.210%**	**0.239%**	**2.104**	

CANNABINOID SUMMARY:

Cannabinoid Totals	12% moisture	Actual %	Dry Weight %	mg/g
Total THC	**38.625%**	**38.659%**	**43.892%**	**386.597**
Total CBD	**0.135%**	**0.135%**	**0.153%**	**1.348**
Total Cannabinoids*	**43.944%**	**43.983%**	**49.936%**	**439.840**

Dry Weight % = Wet % / ((100 - Moisture Value) / 100)
12% Moisture % = Dry Weight % - (Dry Weight % x 0.12)
For inhalation Derivative Products and Usable Whole Flower Marijuana, Total THC = THC + (0.877 x THCA) and Total CBD = CBD + (0.877 x CBDA)

* Includes all cannabinoids tested

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Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/27/2022 12:15:05
Tech: Sara Dichkewich (2463)
SOP: 424.AZ
Final Weight (g): 0.544g
Volume (mL): 5mL

Sample Prep
Date/Time: 06/24/2022 17:31:42
Tech: Eric Dykes (3988)
SOP: 432.AZ

Internal Batch
Batch Number 103589
Date: 06/24/2022

HERBICIDES: (PASS)

LC-MS/MS

Pesticide	Action Level (ppm)	Dilution	Results (ppm)	LOQ (ppm)	LOD (ppm)	Qualifiers
PENDIMETHALIN	0.100	2	N/D	0.050	0.017	I1,M2

PESTICIDES, FUNGICIDES, GROWTH REGULATORS: (PASS)

LC-MS/MS

Pesticide	Action Level (ppm)	Dilution	Results (ppm)	LOQ (ppm)	LOD (ppm)	Qualifiers
ABAMECTIN	0.500	2	N/D	0.250	0.083	M2
ACEPHATE	0.400	2	N/D	0.200	0.067	
ACEQUINOCYL	2.000	2	N/D	1.000	0.333	M2,V1
ACETAMIPRID	0.200	2	N/D	0.100	0.033	
ALDICARB	0.400	2	N/D	0.200	0.067	
AZOXYSTROBIN	0.200	2	N/D	0.100	0.033	
BIFENAZATE	0.200	2	N/D	0.100	0.033	
BIFENTHRIN	0.200	2	N/D	0.100	0.033	M2,V1
BOSCALID	0.400	2	N/D	0.200	0.067	M2
CARBARYL	0.200	2	N/D	0.100	0.033	
CARBOFURAN	0.200	2	N/D	0.100	0.033	
CHLORANTRANILIPROLE	0.200	2	N/D	0.100	0.033	
CHLORFENAPYR	1.000	2	N/D	0.500	0.167	M2
CHLORPYRIFOS	0.200	2	N/D	0.100	0.033	M2
CLOFENTEZINE	0.200	2	N/D	0.100	0.033	M2
CYFLUTHRIN	1.000	2	N/D	0.500	0.167	M2
CYPERMETHRIN	1.000	2	N/D	0.500	0.167	M2,V1
DAMINOZIDE	1.000	2	N/D	0.500	0.167	M2
DIAZINON	0.200	2	N/D	0.100	0.033	M2
DICHLORVOS	0.100	2	N/D	0.050	0.017	
DIMETHOATE	0.200	2	N/D	0.100	0.033	
ETHOPROPHOS	0.200	2	N/D	0.100	0.033	M2
ETOFENPROX	0.400	2	N/D	0.200	0.067	M2,V1
ETOXAZOLE	0.200	2	N/D	0.100	0.033	M2
FENOXYCARB	0.200	2	N/D	0.100	0.033	M2
FENPYROXIMATE	0.400	2	N/D	0.200	0.067	M2
FIPRONIL	0.400	2	N/D	0.200	0.067	
FLONICAMID	1.000	2	N/D	0.500	0.167	
FLUDIOXONIL	0.400	2	N/D	0.200	0.067	M2
HEXYTHIAZOX	1.000	2	N/D	0.500	0.167	M2
IMAZALIL	0.200	2	N/D	0.100	0.033	M2
IMIDACLOPRID	0.400	2	N/D	0.200	0.067	
KRESOXIM-METHYL	0.400	2	N/D	0.200	0.067	M2
MALATHION	0.200	2	N/D	0.100	0.033	M2
METALAXYL	0.200	2	N/D	0.100	0.033	M2
METHIOCARB	0.200	2	N/D	0.100	0.033	M2
METHOMYL	0.400	2	N/D	0.200	0.067	
MYCLOBUTANIL	0.200	2	N/D	0.100	0.033	M2
NALED	0.500	2	N/D	0.250	0.083	
OXAMYL	1.000	2	N/D	0.500	0.167	
PACLOBUTRAZOL	0.400	2	N/D	0.200	0.067	M2
PERMETHRIN	0.200	2	N/D	0.200	0.067	M2,V1
PHOSMET	0.200	2	N/D	0.100	0.033	
PIPERONYL BUTOXIDE	2.000	2	N/D	1.000	0.333	M2
PRALLETHRIN	0.200	2	N/D	0.100	0.033	
PROPICONAZOLE	0.400	2	N/D	0.200	0.067	
PROPOXUR	0.200	2	N/D	0.100	0.033	
PYRETHRINS	1.000	2	N/D	0.500	0.167	M2
PYRIDABEN	0.200	2	N/D	0.100	0.033	M2
SPINOSAD	0.200	2	N/D	0.100	0.033	M2
SPIROMESIFEN	0.200	2	N/D	0.100	0.033	M2
SPIROTETRAMAT	0.200	2	N/D	0.100	0.033	
SPIROXAMINE	0.400	2	N/D	0.200	0.067	M2
TEBUCONAZOLE	0.400	2	N/D	0.200	0.067	
THIACLOPRID	0.200	2	N/D	0.100	0.033	
THIAMETHOXAM	0.200	2	N/D	0.100	0.033	
TRIFLOXYSTROBIN	0.200	2	N/D	0.100	0.033	M2

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License #: 00000020LCVT89602592

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/27/2022 17:31:13
Tech: Sara Dichkewich (2463)
SOP: 405.AZ
Final Weight (g): 0.053g
Volume (mL): N/A mL

Sample Prep
Date/Time: 06/24/2022 19:57:40
Tech: Eric Dykes (3988)
SOP: 405.AZ

Internal Batch
Batch Number 103599
Date: 06/24/2022

RESIDUAL SOLVENTS: (PASS)

HS-GC-MS

Residual Solvent	Action Level (ppm)	Dilution	Results (ppm)	LOQ (ppm)	LOD (ppm)	Qualifiers
2-PROPANOL	5,000	1	N/D	2500	833	
ACETONE	1,000	1	N/D	500	167	
ACETONITRILE	410	1	N/D	205	68	
BENZENE	2	1	N/D	1	0.33	
BUTANES	5,000	1	N/D	2500	833	
CHLOROFORM	60	1	N/D	30	10	M1
DICHLOROMETHANE	600	1	N/D	300	100	
ETHANOL	5,000	1	N/D	2500	833	L1
ETHYL ACETATE	5,000	1	N/D	2500	833	
ETHYL ETHER	5,000	1	N/D	2500	833	
HEPTANE	5,000	1	N/D	2500	833	
HEXANES	290	1	N/D	145	48	
ISOPROPYL ACETATE	5,000	1	N/D	2500	833	
METHANOL	3,000	1	N/D	1500	500	L1
PENTANES	5,000	1	N/D	2500	833	
PROPANE	5,000	1	N/D	2500	833	
TOLUENE	890	1	N/D	445	148	
XYLENES	2,170	1	N/D	1085	362	

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MICROBIAL ANALYSIS: (PASS)

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/25/2022 18:58:33
Tech: Andrew Mellies (3444)

Sample Prep
Date/Time: 06/23/2022 20:21:04
Tech: Eric Dykes (3988)

Internal Batch
Batch Number 103580
Date: 06/23/2022

Test	Test Method	Analysis SOP	Prep SOP	Allowable Criteria	Actual Result	Pass/Fail	Qualifiers
Aspergillus Fumigatus	Real-time PCR	430.AZ	430.AZ	DETECT/NOT DETECTED	NOT DETECTED	Pass	
Aspergillus Niger	Real-time PCR	430.AZ	430.AZ	DETECT/NOT DETECTED	NOT DETECTED	Pass	
Aspergillus Flavus	Real-time PCR	430.AZ	430.AZ	DETECT/NOT DETECTED	NOT DETECTED	Pass	
Aspergillus Terreus	Real-time PCR	430.AZ	430.AZ	DETECT/NOT DETECTED	NOT DETECTED	Pass	

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/25/2022 18:58:33
Tech: Andrew Mellies (3444)

Sample Prep
Date/Time: 06/24/2022 17:58:32
Tech: Eric Dykes (3988)

Internal Batch
Batch Number 103592
Date: 06/24/2022

Test	Test Method	Analysis SOP	Prep SOP	Allowable Criteria	Actual Result	Pass/Fail	Qualifiers
Salmonella	Real-time PCR	429.AZ	429.AZ	DETECT/NOT DETECTED	NOT DETECTED	Pass	

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/25/2022 18:58:33
Tech: Andrew Mellies (3444)

Sample Prep
Date/Time: 06/24/2022 19:27:18
Tech: Eric Dykes (3988)

Internal Batch
Batch Number 103596
Date: 06/24/2022

Test	Test Method	Analysis SOP	Prep SOP	Allowable Criteria	Actual Result	Pass/Fail	Qualifiers
Escherichia coli	TEMPO	431.AZ	431.AZ	< 100 CFU/g	< 100 CFU/g	Pass	

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Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/27/2022 12:15:05
Tech: Sara Dichkewich (2463)
SOP: 424.AZ
Final Weight (g): 0.544g
Volume (mL): 5mL

Sample Prep
Date/Time: 06/24/2022 17:31:42
Tech: Eric Dykes (3988)
SOP: 432.AZ

Internal Batch
Batch Number 103589
Date: 06/24/2022

MYCOTOXIN ANALYSIS: (PASS)

LC-MS/MS

Analyte	Action Level (ppb)	Results (ppb)	Dilution	LOQ (ppb)	LOD (ppb)	Qualifiers
AFLATOXIN B1	N/A	N/D	2	10	4	
AFLATOXIN B2	N/A	N/D	2	10	4	
AFLATOXIN G1	N/A	N/D	2	10	4	
AFLATOXIN G2	N/A	N/D	2	5	4	
OCHRATOXIN A	20	N/D	2	10	10	I1,L1
TOTAL AFLATOXIN	20	N/D	2	10	4	

Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/24/2022 19:38:10
Tech: Madison Levy (3689)
SOP: 428.AZ
Final Weight (g): 0.236g
Volume (mL): 6mL

Sample Prep
Date/Time: 06/23/2022 20:17:33
Tech: Eric Dykes (3988)
SOP: 428.AZ

Internal Batch
Batch Number 103578
Date: 06/23/2022

HEAVY METAL ANALYSIS: (PASS)

ICP-MS

Metal	Action Level (ppb)	Dilution	Results (ppb)	LOQ (ppb)	LOD (ppb)	Qualifiers
Arsenic	400	10	N/D	200	20	
Cadmium	400	10	N/D	200	20	
Mercury	1,200	10	N/D	600	20	
Lead	1,000	10	B/LOQ	500	20	

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Order #: 96553
Order Name: King Louis Preroll
Batch #: PR-KNG-062122-4
Received: 06/22/2022 18:34:46
Complete: 06/27/2022 19:06:11

Sample Analysis
Date/Time: 06/24/2022 18:16:27
Tech: Kymberly Green (3963)
SOP: 411
Final Weight (g): 0.303g
Volume (mL): N/A mL

Sample Prep
Date/Time: 06/24/2022 17:59:33
Tech: Nicholas Burks (3962)
SOP: 411

Internal Batch
Batch Number 103593
Date: 06/24/2022

MOISTURE ANALYSIS: (TESTED)

Uploaded: 06/24/2022 18:16:27
Moisture: 11.9%
Qualifiers: Q3

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QUALIFIER LEGEND (ALSO REFERENCED AS "Q"):

B1 The target analyte detected in the calibration is at or above the limit of quantitation, but the sample result for potency testing, is below the limit of quantitation

B2 The target analyte detected in the calibration blank, or the method blank is at or above the limit of quantitation, but the sample result when testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, is below the maximum allowable concentration for the analyte

D1 The limit of quantitation and the sample results were adjusted to reflect sample dilution

I1 The relative intensity of a characteristic ion in a sample analyte exceeded the acceptance with respect to the reference spectra, indicating interference

L1 When testing for pesticides, fungicides, herbicides, growth regulators, heavy metals, or residual solvents, the percent recovery of a laboratory control sample is greater than the acceptance limits, but the sample's target analytes were not detected above the maximum allowable concentrations for the analytes in the sample

M1 The recovery from the matrix spike was high, but the recovery from the laboratory control sample was within acceptance criteria

M2 The recovery from the matrix spike was low, but the recovery from the laboratory control sample was within acceptance criteria

M3 The recovery from the matrix spike was unusable because the analyte concentration was disproportionate to the spike level, but the recovery from the laboratory control sample was within acceptance criteria

M4 The analysis of a spiked sample required a dilution such that the spike recovery calculation does not provide useful information, but the recovery from the associated laboratory control sample was within acceptance criteria

M5 The analyte concentration was determined by the method of standard addition, in which the standard is added directly to the aliquots of the analyzed sample

M6 A description of the variance is described in the final report of testing according to R9-17-404.06(B)(3)(d)(ii)

Q1 Sample integrity was not maintained

Q2 The sample is heterogeneous, and sample homogeneity could not be readily achieved using routine laboratory practices

Q3 Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317

R1 The relative percent difference for the laboratory control sample and duplicate exceeded the limit, but the recovery was within acceptance criteria

R2 The relative percent difference for a sample and duplicate exceeded the limit

V1 The recovery from continuing calibration verification standards exceeded the acceptance limits, but the sample's target analytes were not detected above the maximum allowable for the analytes in the sample

QUALIFIER NOTES:

7/14/2022 Revision: label claim added for THC (40%) upon client request
7/20/2022 Revision: label claim removed

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