



### Royal OG

Sample ID: G3K0345-03

Matrix: Industrial Hemp

Test ID: 5023486

Source ID:

Date Sampled: 11/22/23

Date Accepted: 11/22/23

**Farm 15**

### Results at a Glance

Total THC : 0.70 %

Total CBD : 21 %

Total CBG : 0.050 %

Percent Moisture : 11.2 % **PASS**



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LABORATORY**

Eric Wendt  
Chief Science Officer - 11/27/2023

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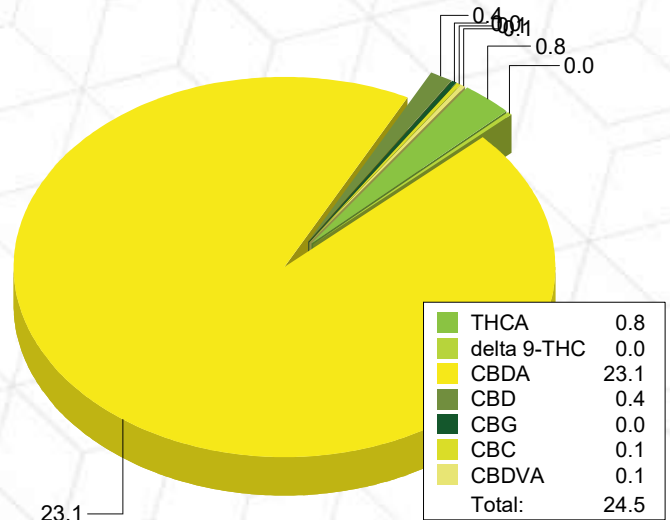
### Potency Analysis

Date/Time Extracted: 11/25/23 12:53

Analysis Method/SOP: 215

Batch Identification: 2347076

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile
Total THC	0.010	0.70	7	
Total CBD	0.009	21	210	
Total CBG	0.0009	0.050	0.5	
THCA	0.0006	0.76	7.6	
delta 9-THC	0.0006	0.040	0.4	
delta 8-THC	0.005	< LOQ	< LOQ	
THCV	0.006	< LOQ	< LOQ	
THCVA	0.002	< LOQ	< LOQ	
CBD	0.002	0.38	3.8	
CBDA	0.002	23	230	
CBDV	0.006	< LOQ	< LOQ	
CBDVA	0.002	0.052	0.52	
CBN	0.003	< LOQ	< LOQ	
CBG	0.0009	0.050	0.5	
CBGA	0.0009	< LOQ	< LOQ	
CBC	0.010	0.096	0.96	



### Moisture

Date/Time Extracted: 11/25/23 17:15

Analysis Method/SOP: 103

Moisture: 11.2 %

Action Level: 90%

Potency results are reported on a dry weight basis.

Total THC = delta 9-THC + (THCA \* 0.877)

Total CBD = CBD + (CBDA \* 0.877)

Total CBG = CBG + (CBGA \* 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.

THCA, delta 9-THC, delta 8-THC, CBDA and CBD are accredited by TNI 2016 and ISO 17025



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Source ID:

Date Sampled: 11/22/23

Date Accepted: 11/22/23

Farm 15

### Pesticide Analysis in ppm

Date/Time Extracted: 10/31/23 15:41

Analysis Method/SOP: 203

Analyte	Result	Action Level	LOD	LOQ	Units	Notes	Analyte	Result	Action Level	LOD	LOQ	Units	Notes
Abamectin	< LOQ	0.5		0.04	ppm		Acephate	< LOQ	0.4		0.04	ppm	
Acequinocyl	< LOQ	2		0.04	ppm		Acetamiprid	< LOQ	0.2		0.04	ppm	
Aldicarb	< LOQ	0.4		0.04	ppm		Azoxystrobin	< LOQ	0.2		0.04	ppm	
Bifenazate	< LOQ	0.2		0.04	ppm		Bifenthrin	< LOQ	0.2		0.04	ppm	
Boscalid	< LOQ	0.4		0.04	ppm		Carbaryl	< LOQ	0.2		0.04	ppm	
Carbofuran	< LOQ	0.2		0.04	ppm		Chlorantraniliprole	< LOQ	0.2		0.04	ppm	
Chlorfenapyr	< LOQ	1		0.1	ppm		Chlorpyrifos	< LOQ	0.2		0.04	ppm	
Clofentezine	< LOQ	0.2		0.04	ppm		Cyfluthrin	< LOQ	1		0.1	ppm	
Cypermethrin	< LOQ	1		0.1	ppm		Daminozide	< LOQ	1		0.04	ppm	
DDVP (Dichlorvos)	< LOQ	1		0.04	ppm		Diazinon	< LOQ	0.2		0.04	ppm	
Dimethoate	< LOQ	0.2		0.04	ppm		Ethoprophos	< LOQ	0.2		0.04	ppm	
Etofenprox	< LOQ	0.4		0.04	ppm		Etoxazole	< LOQ	0.2		0.04	ppm	
Fenoxycarb	< LOQ	0.2		0.04	ppm		Fenpyroximate	< LOQ	0.4		0.04	ppm	
Fipronil	< LOQ	0.4		0.04	ppm		Fonicamid	< LOQ	1		0.04	ppm	
Fludioxonil	< LOQ	0.4		0.04	ppm		Hexythiazox	< LOQ	1		0.04	ppm	
Imazalil	< LOQ	0.2		0.04	ppm		Imidacloprid	< LOQ	0.4		0.04	ppm	
Kresoxim-methyl	< LOQ	0.4		0.04	ppm		Malathion	< LOQ	0.2		0.04	ppm	
Metalaxyl	< LOQ	0.2		0.04	ppm		Methiocarb	< LOQ	0.2		0.04	ppm	
Methomyl	< LOQ	0.4		0.04	ppm		Methyl parathion	< LOQ	0.2		0.04	ppm	
MGK-264	< LOQ	0.2		0.04	ppm		Myclobutanil	< LOQ	0.2		0.04	ppm	
Naled	< LOQ	0.5		0.04	ppm		Oxamyl	< LOQ	1		0.04	ppm	
Paclobutrazol	< LOQ	0.4		0.04	ppm		Permethrins	< LOQ	0.2		0.04	ppm	
Phosmet	< LOQ	0.2		0.04	ppm		Piperonyl butoxide	< LOQ	2		1.0	ppm	
Prallethrin	< LOQ	0.2		0.04	ppm		Propiconazole	< LOQ	0.4		0.04	ppm	
Propoxur	< LOQ	0.2		0.04	ppm		Pyrethrins	< LOQ	1		0.5	ppm	
Pyridaben	< LOQ	0.2		0.04	ppm		Spinosad	< LOQ	0.2		0.04	ppm	
Spiromesifen	< LOQ	0.2		0.04	ppm		Spirotetramat	< LOQ	0.2		0.04	ppm	
Spiroxamine	< LOQ	0.4		0.04	ppm		Tebuconazole	< LOQ	0.4		0.04	ppm	
Thiacloprid	< LOQ	0.2		0.04	ppm		Thiamethoxam	< LOQ	0.2		0.04	ppm	
Trifloxystrobin	< LOQ	0.2		0.04	ppm								

ND - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Chief Science Officer - 11/2/2023

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Farm 15

### Mycotoxins by LCMSMS

Date/Time Extracted: 10/31/23 15:41

Analysis Method/SOP: Mycotoxins

Analyte	Result	Action Level	LOD	LOQ	Units
afatoxin B1	< LOQ	20	10.0	10.0	ug/kg
afatoxin B2	< LOQ	20	10.0	10.0	ug/kg
afatoxin G1	< LOQ	20	10.0	10.0	ug/kg
afatoxin G2	< LOQ	20	10.0	10.0	ug/kg
ochratoxin A	< LOQ	20	10.0	10.0	ug/kg
Total Aflatoxins	< LOQ	20	10.0	10.0	ug/kg

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted **Red**.

### Microbials by PCR

Date/Time Extracted: 10/31/23 10:13

Analysis Method/SOP: Microbials

Analyte	Result	Action Level	LOD	LOQ	Units	
Escherichia Coli	ND	1	0.00	0.00	cfu/g	No detection in 1 gram
Salmonella	ND	1	0.00	0.00	cfu/g	No detection in 1 gram

### Metals by ICPMS

Date/Time Extracted: 11/01/23 10:59

Analysis Method/SOP: Metals

Analyte	Result	Action Level	LOD	LOQ	Units
Arsenic	< LOQ	0.2	0.03	0.08	ug/g
Cadmium	0.1	0.2	0.02	0.08	ug/g
Lead	< LOQ	0.5	0.01	0.08	ug/g
Mercury	< LOQ	0.1	0.01	0.04	ug/g

<LOQ - Results below the Limit of Quantitation

Results above the Action Level fail state testing requirements and will be highlighted **Red**.



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Chief Science Officer - 11/2/2023



### Quality Control Potency

Batch: 2347076 - 215-Hemp

Blank(2347076-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		11/25/23 12:53	11/25/23 17:44	
delta 9-THC	< LOQ	0.0005	%		11/25/23 12:53	11/25/23 17:44	
delta 8-THC	< LOQ	0.004	%		11/25/23 12:53	11/25/23 17:44	
THCV	< LOQ	0.005	%		11/25/23 12:53	11/25/23 17:44	
THCVA	< LOQ	0.002	%		11/25/23 12:53	11/25/23 17:44	
CBD	< LOQ	0.0005	%		11/25/23 12:53	11/25/23 17:44	
CBDA	< LOQ	0.0005	%		11/25/23 12:53	11/25/23 17:44	
CBDV	< LOQ	0.005	%		11/25/23 12:53	11/25/23 17:44	
CBDVA	< LOQ	0.002	%		11/25/23 12:53	11/25/23 17:44	
CBN	< LOQ	0.003	%		11/25/23 12:53	11/25/23 17:44	
CBG	< LOQ	0.0008	%		11/25/23 12:53	11/25/23 17:44	
CBGA	< LOQ	0.0008	%		11/25/23 12:53	11/25/23 17:44	
CBC	< LOQ	0.009	%		11/25/23 12:53	11/25/23 17:44	

Reference(2347076-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	92.5	0.0005	%	90-110	11/25/23 12:53	11/25/23 18:07	
delta 9-THC	99.6	0.0005	%	90-110	11/25/23 12:53	11/25/23 18:07	
delta 8-THC	107	0.004	%	90-110	11/25/23 12:53	11/25/23 18:07	
CBD	106	0.0005	%	90-110	11/25/23 12:53	11/25/23 18:07	
CBDA	96.7	0.0005	%	90-110	11/25/23 12:53	11/25/23 18:07	

### Moisture Content

Batch: 2347079 - 103

Blank(2347079-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.280		%		11/25/23 17:15	11/25/23 17:15	

Blank(2347079-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.320		%		11/25/23 17:15	11/25/23 17:15	

Reference(2347079-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	115		%	80-120	11/25/23 17:15	11/25/23 17:15	

Reference(2347079-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	105		%	80-120	11/25/23 17:15	11/25/23 17:15	



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### Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to SOP-402 and SOP-403 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- C Interference due to co-elution
- CBD CBD matrix interference on GC Pest chromatography
- CV1 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- CV2 CCV was below acceptance criteria, sample still exceeds regulatory limit.
- INF One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISH Internal Standard concentration is above acceptance criteria.
- ISL Internal Standard concentration is below acceptance criteria.
- MSH Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- U Internal Standard concentration outside control limit due to matrix interference



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