



### 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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**Farm 15**

### 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	<table><tr><td>THCA</td><td>0.8</td></tr><tr><td>delta 9-THC</td><td>0.0</td></tr><tr><td>CBDA</td><td>23.1</td></tr><tr><td>CBD</td><td>0.4</td></tr><tr><td>CBG</td><td>0.0</td></tr><tr><td>CBC</td><td>0.1</td></tr><tr><td>CBDVA</td><td>0.1</td></tr><tr><td>Total:</td><td>24.5</td></tr></table>	THCA	0.8	delta 9-THC	0.0	CBDA	23.1	CBD	0.4	CBG	0.0	CBC	0.1	CBDVA	0.1	Total:	24.5
THCA	0.8																			
delta 9-THC	0.0																			
CBDA	23.1																			
CBD	0.4																			
CBG	0.0																			
CBC	0.1																			
CBDVA	0.1																			
Total:	24.5																			
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



*[Signature]*

Eric Wendt

Chief Science Officer - 11/27/2023

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Sample ID: G3K0345-03

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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		Flonicamid	< 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**.



*[Signature]*

Eric Wendt  
Chief Science Officer - 11/2/2023



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Source ID:

Date Sampled: 11/22/23

Date Accepted: 11/22/23

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
Salmonella	ND	1	0.00	0.00	cfu/g

No detection in 1 gram

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.



### 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	



Eric Wendt  
Chief Science Officer - 11/27/2023

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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
C	manually for all samples.
CBD	Interference due to co-elution
CV1	CBD matrix interference on GC Pest chromatography
CV2	CCV was above acceptance criteria, Non-detect samples are considered acceptable.
INF	CCV was below acceptance criteria, sample still exceeds regulatory limit.
ISH	One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
ISL	Internal Standard concentration is above acceptance criteria.
MSH	Internal Standard concentration is below acceptance criteria.
MSI	Matrix Spike High - Matrix Spike recovery above method limits.
MSL	Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting
TPP	recovery accuracy in Matrix Spike.
U	Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed
	manually for all samples.
	Internal Standard concentration outside control limit due to matrix interference