

## Grateful Greenery

Lowell, OR 97452  
tking@gratefulgreenery.com  
(541) 525-1453  
Lic. #020-10030431B80

## Sample: 1807CH0198.0820

Strain: mothertongue  
Batch#: pest a; Batch Size: 1245.56 - grams  
Sample Received: 07/20/2018; Report Created: 07/24/2018; Expires: 07/24/2019  
Harvest/Production Date: 07/02/2018  
Sampling: Random; Environment: Room Temp

## Mother Tongue

Plant, Flower - Cured, Greenhouse  
Harvest Process Lot: 180702mothertongue; METRC Batch: 1A4010300017AE900000090; METRC Sample: 1A4010300017AE900000099



**Pass**

Pesticides

Moisture **8.6%**  
Water Activity **0.500**  
*0.65 Limit*

Microbial Potential

## Cannabinoids

184 HPLC3 20180721-3  
07/21/2018

**Pass**

**22.06%**

Total THC\* (Calculated Decarboxylated Potential)

**0.05%**

Total CBD\*\* (Calculated Decarboxylated Potential)

**26.04%**

Total Cannabinoids Analyzed

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	0.2	24.54	245.4
Δ9-THC	0.2	0.54	5.4
Δ8-THC	0.2	<LOQ	<LOQ
THCVa	0.2	<LOQ	<LOQ
THCV	0.2	<LOQ	<LOQ
CBDa	0.2	0.06	0.6
CBD	0.2	<LOQ	<LOQ
CBDV	0.2	<LOQ	<LOQ
CBNa	0.2	<LOQ	<LOQ
CBN	0.2	0.02	0.2
CBGa	0.2	0.69	6.9
CBG	0.2	0.16	1.6
CBCa	0.2	<LOQ	<LOQ
CBC	0.2	0.03	0.3
CBLa	0.2	<LOQ	<LOQ
<b>Total</b>		<b>26.04</b>	<b>260.4</b>

\*Total THC = THCa \* 0.877 + d9-THC. \*\*Total CBD = CBDa \* 0.877 + CBD. LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected

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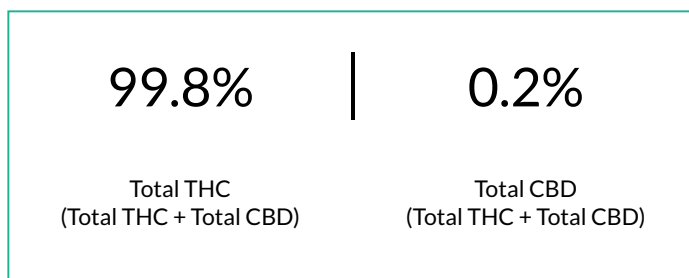
Strain: mothertongue  
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## Mother Tongue

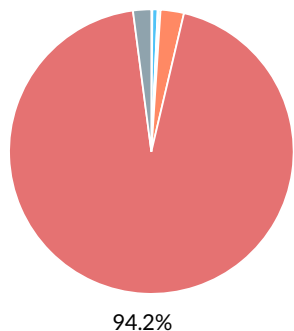
Plant, Flower - Cured, Greenhouse  
Harvest Process Lot: 180702mother tongue; METRC Batch: 1A4010300017AE9000000090; METRC Sample: 1A4010300017AE9000000099



## Cannabinoid Ratios



■ CBC ■ CBG ■ CBN ■ CBDa  
■ CBGa ■ THCa ■ Δ9-THC



Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	0.2	24.54	245.4
Δ9-THC	0.2	0.54	5.4
Δ8-THC	0.2	<LOQ	<LOQ
THCVa	0.2	<LOQ	<LOQ
THCV	0.2	<LOQ	<LOQ
CBDa	0.2	0.06	0.6
CBD	0.2	<LOQ	<LOQ
CBDV	0.2	<LOQ	<LOQ
CBNa	0.2	<LOQ	<LOQ
CBN	0.2	0.02	0.2
CBGa	0.2	0.69	6.9
CBG	0.2	0.16	1.6
CBCa	0.2	<LOQ	<LOQ
CBC	0.2	0.03	0.3
CBLa	0.2	<LOQ	<LOQ
<b>Total</b>		<b>26.04</b>	<b>260.4</b>

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## Pesticides

517 LCQQQ1 20180723-1  
07/24/2018

Pass

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB			PPB	PPB	PPB	
Abamectin	400	500	<LOQ	Pass	Imazalil	100	200	<LOQ	Pass
Acephate	100	400	<LOQ	Pass	Imidacloprid	100	400	<LOQ	Pass
Acequinocyl	750	2000	<LOQ	Pass	Kresoxim Methyl	100	400	<LOQ	Pass
Acetamiprid	100	200	<LOQ	Pass	Malathion	100	200	<LOQ	Pass
Aldicarb	300	400	<LOQ	Pass	Metalaxyl	100	200	<LOQ	Pass
Azoxystrobin	100	200	<LOQ	Pass	Methiocarb	100	200	<LOQ	Pass
Bifenazate	100	200	<LOQ	Pass	Methomyl	100	400	<LOQ	Pass
Bifenthrin	100	200	<LOQ	Pass	Methyl Parathion	100	200	<LOQ	Pass
Boscalid	200	400	<LOQ	Pass	MGK-264	100	200	<LOQ	Pass
Carbaryl	100	200	<LOQ	Pass	Myclobutanil	100	200	<LOQ	Pass
Carbofuran	100	200	<LOQ	Pass	Naled	100	500	<LOQ	Pass
Chlorantraniliprole	100	200	<LOQ	Pass	Oxamyl	100	1000	<LOQ	Pass
Chlorfenapyr	400	1000	<LOQ	Pass	Paclobutrazol	100	400	<LOQ	Pass
Chlorpyrifos	150	200	<LOQ	Pass	Permethrins	150	200	<LOQ	Pass
Clofentezine	100	200	<LOQ	Pass	Phosmet	100	200	<LOQ	Pass
Cyfluthrin	400	1000	<LOQ	Pass	Piperonyl Butoxide	100	2000	<LOQ	Pass
Cypermethrin	400	1000	<LOQ	Pass	Prallethrin	150	200	<LOQ	Pass
Daminozide	400	1000	<LOQ	Pass	Propiconazole	200	400	<LOQ	Pass
Diazinon	100	200	<LOQ	Pass	Propoxur	100	200	<LOQ	Pass
Dichlorvos	150	1000	<LOQ	Pass	Pyrethrins	400	1000	<LOQ	Pass
Dimethoate	100	200	<LOQ	Pass	Pyridaben	100	200	<LOQ	Pass
Ethoprophos	100	200	<LOQ	Pass	Spinosad	100	200	<LOQ	Pass
Etofenprox	200	400	<LOQ	Pass	Spiromesifen	100	200	<LOQ	Pass
Etoazole	100	200	<LOQ	Pass	Spirotetramat	100	200	<LOQ	Pass
Fenoxycarb	100	200	<LOQ	Pass	Spiroxamine	150	400	<LOQ	Pass
Fenpyroximate	200	400	<LOQ	Pass	Tebuconazole	100	400	<LOQ	Pass
Fipronil	100	400	<LOQ	Pass	Thiacloprid	100	200	<LOQ	Pass
Flonicamid	200	1000	<LOQ	Pass	Thiamethoxam	150	200	<LOQ	Pass
Fludioxonil	200	400	<LOQ	Pass	Trifloxystrobin	100	200	<LOQ	Pass
Hexythiazox	200	1000	<LOQ	Pass					

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057

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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
184 HPLC3 20180721-3	PMB07201803F	Cannabinoids	Blank

### QC Notes

None

Compounds	Blank Result	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0	0.05	<LOQ	-
Δ9-THC	0	0.05	<LOQ	-
CBDa	0	0.05	<LOQ	-
CBD	0	0.05	<LOQ	-



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Plant, Flower - Cured, Greenhouse  
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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
184 HPLC3 20180721-3	PLCS07201803F	Cannabinoids	Lab Control Sample

### QC Notes

None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	5.66	5.65	100.18	70 - 130	-
Δ9-THC	6.36	6.54	97.25	70 - 130	-
CBDa	3.5	3.48	100.57	70 - 130	-
CBD	3.5	3.58	97.77	57 - 143	-



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
184 HPLC3 20180721-3	PMS07201803F	Cannabinoids	Spike

### QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.06	9.57	<20	61	70 - 130	Below Limit Range
Δ9-THC	0.06	8.7	<20	103	70 - 130	-
CBDa	0.06	<LOQ	<LOQ	84	70 - 130	-
CBD	0.06	<LOQ	<LOQ	97	70 - 130	-



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
118 GCQQQ2 20180723-2	MRGB07201802P GC	Required Pesticides	Blank

### QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Chlorfenapyr	400	<LOQ	-
Cyfluthrin	400	<LOQ	-
Cypermethrin	400	<LOQ	-
Fipronil	100	<LOQ	-
Fludioxonil	200	<LOQ	-
MGK-264	100	<LOQ	-
Methyl Parathion	100	<LOQ	-



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
517 LCQQQ1 20180723-1	MRMB07201802P LC	Required Pesticides	Blank

### QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Acephate	100	<LOQ	
Acequinocyl	750	<LOQ	
Acetamiprid	100	<LOQ	
Aldicarb	300	<LOQ	
Abamectin	400	<LOQ	
Azoxystrobin	100	<LOQ	
Bifenazate	100	<LOQ	
Bifenthrin	100	<LOQ	
Boscalid	200	<LOQ	
Carbaryl	100	<LOQ	
Carbofuran	100	<LOQ	
Chlorantraniliprole	100	<LOQ	
Chlorpyrifos	150	<LOQ	
Clofentezine	100	<LOQ	
Daminozide	400	<LOQ	
Diazinon	100	<LOQ	
Dichlorvos	150	<LOQ	
Dimethoate	100	<LOQ	
Ethoprophos	100	<LOQ	
Etofenprox	200	<LOQ	
Etoxazole	100	<LOQ	
Fenoxycarb	100	<LOQ	
Fenpyroximate	200	<LOQ	
Flonicamid	200	<LOQ	
Hexythiazox	200	<LOQ	
Imazalil	100	<LOQ	
Imidacloprid	100	<LOQ	
Kresoxim Methyl	100	<LOQ	
Malathion	100	<LOQ	
Metalaxyl	100	<LOQ	





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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
517 LCQQQ1 20180723-1	MRMB07201802P LC	Required Pesticides	Blank

### QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Methiocarb	100	<LOQ	
Methomyl	100	<LOQ	
Myclobutanil	100	<LOQ	
Naled	100	<LOQ	
Oxamyl	100	<LOQ	
Paclobutrazol	100	<LOQ	
Permethrin	150	<LOQ	
Phosmet	100	<LOQ	
Piperonyl Butoxide	100	<LOQ	
Prallethrin	150	<LOQ	
Propiconazole	200	<LOQ	
Propoxur	100	<LOQ	
Pyrethrins	400	<LOQ	
Pyridaben	100	<LOQ	
Spinosad	100	<LOQ	
Spiromesifen	100	<LOQ	
Spirotetramat	100	<LOQ	
Spiroxamine	150	<LOQ	
Tebuconazole	100	<LOQ	
Thiacloprid	100	<LOQ	
Thiamethoxam	150	<LOQ	
Trifloxystrobin	100	<LOQ	



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Plant, Flower - Cured, Greenhouse  
Harvest Process Lot: 180702mother tongue; METRC Batch: 1A4010300017AE9000000090; METRC Sample: 1A4010300017AE9000000099



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
118 GCQQQ2 20180723-2	MRLCS07201802P GC	Required Pesticides	Lab Control Sample

### QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Chlorfenapyr	104	69 - 132	-
Cyfluthrin	101	68 - 136	-
Cypermethrin	102	67 - 134	-
Fipronil	110	67 - 136	-
Fludioxonil	112	69 - 139	-
MGK-264	100	65 - 145	-
Parathion Methyl	103	66 - 131	-



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Harvest Process Lot: 180720mother tongue; METRC Batch: 1A4010300017AE900000090; METRC Sample: 1A4010300017AE900000099



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
517 LCQQQ1 20180723-1	MRLCS07201802P LC	Required Pesticides	Lab Control Sample

### QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Acephate	124.22	56 - 149	-
Acequinocyl	104.76	30 - 142	-
Acetamiprid	111.23	56 - 149	-
Aldicarb	112.83	53 - 150	-
Abamectin	121.29	30 - 140	-
Azoxystrobin	106.73	55 - 138	-
Bifenazate	114.82	53 - 137	-
Bifenthrin	160.9	30 - 150	Above Limit Range
Boscalid	121.61	55 - 142	-
Carbaryl	115.56	56 - 150	-
Carbofuran	110.67	57 - 142	-
Chlorantraniliprole	58.88	54 - 141	-
Chlorpyrifos	145.75	34 - 150	-
Clofentezine	107.36	44 - 150	-
Daminozide	182.13	30 - 150	Above Limit Range
Diazinon	104.63	55 - 134	-
Dichlorvos	112.19	49 - 149	-
Dimethoate	112.75	56 - 149	-
Ethoprophos	111.32	52 - 143	-
Etofenprox	126.09	46 - 140	-
Etoxazole	109.93	50 - 134	-
Fenoxycarb	114.88	53 - 139	-
Fenproximate	114.01	45 - 127	-
Flonicamid	115.1	55 - 145	-
Hexythiazox	148.2	39 - 141	Above Limit Range
Imazalil	99.99	40 - 149	-
Imidacloprid	111.89	54 - 150	-
Kresoxim Methyl	117.77	57 - 139	-
Malathion	116.57	51 - 147	-
Metalaxyl	109.15	58 - 142	-



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
517 LCQQQ1 20180723-1	MRLCS07201802P LC	Required Pesticides	Lab Control Sample

### QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Methiocarb	122.38	50 - 150	-
Methomyl	116.06	55 - 150	-
Myclobutanil	113.36	54 - 145	-
Naled	116.56	49 - 146	-
Oxamyl	113.8	56 - 147	-
Paclbutrazol	121.74	56 - 139	-
Permethrin	139.55	30 - 138	Above Limit Range
Phosmet	123.43	57 - 146	-
Piperonyl Butoxide	113.9	48 - 146	-
Prallethrin	114.49	53 - 146	-
Propiconazole	95.27	49 - 129	-
Propoxur	110.87	56 - 150	-
Pyrethrins	136.27	30 - 150	-
Pyridaben	128.05	50 - 132	-
Spinosad	85.42	30 - 150	-
Spiromesifen	131.31	52 - 136	-
Spirotetramat	100.38	46 - 150	-
Spiroxamine	85.48	30 - 150	-
Tebuconazole	101.85	48 - 136	-
Thiacloprid	116.98	47 - 150	-
Thiamethoxam	114.75	57 - 147	-
Trifloxystrobin	114.87	46 - 147	-



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
118 GCQQQ2 20180723-2	MRMS07201802P GC	Required Pesticides	Spike

### QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Chlorfenapyr	6.73	20	<20	104.08	62 - 130	
Cyfluthrin	2.21	20	<20	95.69	63 - 128	
Cypermethrin	2.11	20	<20	96.7	58 - 126	
Fipronil	2.25	20	<20	106.47	62 - 134	
Fludioxonil	0.29	20	<20	108.29	62 - 139	
MGK-264	2.39	20	<20	97.37	56 - 150	
Methyl Parathion	2.7	20	<20	97.59	63 - 135	



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## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
517 LCQQQ1 20180723-1	MRMS07201802P LC	Required Pesticides	Spike

### QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Acephate	0.62	30	<30	125.25	52 - 150	-
Acequinocyl	5.22	30	<30	100.62	30 - 147	-
Acetamiprid	0.6	30	<30	107.62	47 - 148	-
Aldicarb	1.07	30	<30	111.16	48 - 145	-
Abamectin	17.17	30	<30	96.22	41 - 150	-
Azoxystrobin	0.31	30	<30	103.27	50 - 150	-
Bifenazate	2.55	30	<30	109.93	50 - 150	-
Bifenthrin	12.38	30	<30	197.73	46 - 150	Above Limit Range
Boscalid	2.82	30	<30	115.09	50 - 150	-
Carbaryl	3.93	30	<30	113.19	57 - 150	-
Carbofuran	0.67	30	<30	103.65	51 - 150	-
Chlorantraniliprole	4.15	30	<30	54.74	52 - 150	-
Chlorpyrifos	6.51	30	<30	132.06	30 - 150	-
Clofentezine	0.64	30	<30	102.49	53 - 146	-
Daminozide	0.26	30	<30	163.29	30 - 150	Above Limit Range
Diazinon	0.64	30	<30	100.25	41 - 145	-
Dichlorvos	0.73	30	<30	112.14	54 - 141	-
Dimethoate	2.46	30	<30	108.44	49 - 149	-
Ethoprophos	0.8	30	<30	104.03	47 - 146	-
Etofenprox	10.03	30	<30	143.96	38 - 150	-
Etoxazole	0.37	30	<30	121.13	34 - 150	-
Fenoxycarb	2.23	30	<30	108.24	54 - 150	-
Fenproximate	2.25	30	<30	106.82	34 - 150	-
Flonicamid	3.93	30	<30	109.14	45 - 143	-
Hexythiazox	6.9	30	<30	118.31	30 - 150	-
Imazalil	1.42	30	<30	95.23	30 - 147	-
Imidacloprid	2.95	30	<30	108.41	43 - 148	-
Kresoxim Methyl	3.29	30	<30	113.56	56 - 144	-
Malathion	1.11	30	<30	116.95	55 - 150	-
Metalaxyl	2.61	30	<30	103.91	50 - 150	-



## Grateful Greenery

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## Sample: 1807CH0198.0820

Strain: mothertongue  
Batch#: pest a; Batch Size: 1245.56 - grams  
Sample Received: 07/20/2018; Report Created: 07/24/2018; Expires: 07/24/2019  
Harvest/Production Date: 07/02/2018  
Sampling: Random; Environment: Room Temp

## Mother Tongue

Plant, Flower - Cured, Greenhouse  
Harvest Process Lot: 180720mother tongue; METRC Batch: 1A4010300017AE900000090; METRC Sample: 1A4010300017AE900000099



## Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
517 LCQQQ1 20180723-1	MRMS07201802P LC	Required Pesticides	Spike

### QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Methiocarb	0.73	30	<30	113.38	50 - 150	-
Methomyl	1.77	30	<30	112.36	42 - 150	-
Myclobutanil	3	30	<30	107.17	43 - 150	-
Naled	1.47	30	<30	114.24	46 - 150	-
Oxamyl	2.47	30	<30	110.58	41 - 150	-
Paclobutrazol	1.98	30	<30	116.44	47 - 150	-
Permethrin	7.31	30	<30	161.41	37 - 150	Above Limit Range
Phosmet	3.75	30	<30	111.25	35 - 150	-
Piperonyl Butoxide	2.36	30	<30	110.37	30 - 149	-
Prallethrin	3.53	30	<30	108.17	46 - 150	-
Propiconazole	2.85	30	<30	95.98	40 - 150	-
Propoxur	1.67	30	<30	106.11	53 - 150	-
Pyrethrins	6.63	30	<30	217.07	30 - 150	Above Limit Range
Pyridaben	4.83	30	<30	127.12	41 - 150	-
Spinosad	1.41	30	<30	80.44	30 - 150	-
Spiromesifen	3.29	30	<30	137.17	43 - 150	-
Spirotetramat	4.74	30	<30	96.4	48 - 150	-
Spiroxamine	3.81	30	<30	80.1	30 - 143	-
Tebuconazole	2.24	30	<30	100.59	45 - 150	-
Thiacloprid	0.31	30	<30	112.33	50 - 147	-
Thiamethoxam	1.73	30	<30	111.28	40 - 147	-
Trifloxystrobin	4.43	30	<30	105.32	50 - 150	-

