



2 River Labs, Inc  
3951 Performance Dr, Suite C  
Sacramento, CA 95838

(916) 542-1479  
http://www.2riverlabs.com  
Lic# C8-18-000022-TEMP

# Perennial Spray

Sample ID: 2RL19061705-05  
Strain: Perennial Spray  
Matrix: Topical  
Type: Other  
Sample Size: 13 units; Batch: 1,316 units

Collected: 06/17/2019  
Received: 06/17/2019  
Completed: 06/25/2019  
Batch#: 0204051230-S

Distributor  
**Big Tree Industries LLC**  
Lic. # C11-0000276-LIC  
1500 El Camino Ave  
Sacramento, CA 95815

Producer  
**Making You Better Brands**  
Lic. # CDPH-10002785  
1500 El Camino Ave Suite J Sacramento,  
CA 95815



## Summary

Test	Date Tested	Result
Batch		Pass
Cannabinoids	06/21/2019	Complete
Residual Solvents	06/18/2019	Pass
Microbials	06/20/2019	Pass
Mycotoxins	06/20/2019	Pass
Pesticides	06/20/2019	Pass
Heavy Metals	06/24/2019	Pass
Foreign Matter	06/18/2019	Pass

## Cannabinoids

Complete

<b>0.011%</b>	<b>ND</b>	<b>0.012%</b>
Total THC	Total CBD	Total Cannabinoids

Analyte	LOD	LOQ	Result	Result
	µg/g	µg/g	%	mg/mL
THCa	0.03	0.1	0.012	0.12
Δ9-THC	0.05	0.2	ND	ND
CBDa	0.03	0.1	ND	ND
CBD	0.06	0.2	ND	ND
CBN	0.03	0.1	ND	ND
CBG	0.06	0.2	ND	ND
<b>Total THC</b>			<b>0.011</b>	<b>0.11</b>
<b>Total CBD</b>			<b>ND</b>	<b>ND</b>
<b>Total</b>			<b>0.012</b>	<b>0.12</b>

1 mL = 1.0196g.

Method: HPLC/DAD - SOP-024

Total THC = THCa \* 0.877 + Δ9-THC; Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



*Renee Engle-Godner*

Renee Engle-Godner  
Lab Director  
06/25/2019

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## Pesticides

Pass

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.03	0.1	0.3	ND	Pass	Fludioxonil	0.01	0.04	30	ND	Pass
Acephate	0.01	0.02	5	ND	Pass	Hexythiazox	0.01	0.02	2	ND	Pass
Acequinocyl	0.01	0.04	4	ND	Pass	Imazalil	0.01	0.02	0.01	ND	Pass
Acetamiprid	0.004	0.01	5	ND	Pass	Imidacloprid	0.01	0.03	3	ND	Pass
Aldicarb	0.01	0.02	0.01	ND	Pass	Kresoxim Methyl	0.01	0.03	1	ND	Pass
Azoxystrobin	0.01	0.02	40	ND	Pass	Malathion	0.01	0.02	5	ND	Pass
Bifenazate	0.01	0.03	5	ND	Pass	Metalaxyl	0.01	0.02	15	ND	Pass
Bifenthrin	0.01	0.02	0.5	ND	Pass	Methiocarb	0.01	0.03	0.01	ND	Pass
Boscalid	0.01	0.03	10	ND	Pass	Methomyl	0.01	0.02	0.1	ND	Pass
Captan	0.13	0.41	5	ND	Pass	Methyl Parathion	0.02	0.06	0.02	ND	Pass
Carbaryl	0.01	0.02	0.5	ND	Pass	Mevinphos	0.01	0.02	0.01	ND	Pass
Carbofuran	0.01	0.03	0.01	ND	Pass	Myclobutanil	0.01	0.04	9	ND	Pass
Chlorantraniliprole	0.01	0.02	40	ND	Pass	Naled	0.01	0.02	0.5	ND	Pass
Chlordane	0.02	0.06	0.02	ND	Pass	Oxamyl	0.01	0.02	0.2	ND	Pass
Chlorfenapyr	0.01	0.02	0.01	ND	Pass	Pacllobutrazol	0.01	0.03	0.01	ND	Pass
Chlorpyrifos	0.01	0.03	0.01	ND	Pass	Pentachloronitrobenzene	0.002	0.01	0.2	ND	Pass
Clofentezine	0.005	0.01	0.5	ND	Pass	Permethrin	0.01	0.03	20	ND	Pass
Coumaphos	0.01	0.03	0.01	ND	Pass	Phosmet	0.01	0.03	0.2	ND	Pass
Cyfluthrin	0.03	0.09	1	ND	Pass	Piperonyl Butoxide	0.07	0.22	8	ND	Pass
Cypermethrin	0.02	0.06	1	ND	Pass	Prallethrin	0.01	0.02	0.4	ND	Pass
Daminozide	0.01	0.03	0.01	ND	Pass	Propiconazole	0.01	0.02	20	ND	Pass
DDVP	0.01	0.04	0.01	ND	Pass	Propoxur	0.004	0.01	0.004	ND	Pass
Diazinon	0.01	0.02	0.2	ND	Pass	Pyrethrins	0.01	0.02	1	ND	Pass
Dimethoate	0.01	0.02	0.01	ND	Pass	Pyridaben	0.01	0.02	3	ND	Pass
Dimethomorph	0.01	0.03	20	ND	Pass	Spinetoram	0.02	0.05	3	ND	Pass
Ethoprophos	0.01	0.03	0.01	ND	Pass	Spinosad	0.002	0.01	3	ND	Pass
Etofenprox	0.01	0.02	0.01	ND	Pass	Spiromesifen	0.01	0.02	12	ND	Pass
Etoxazole	0.01	0.02	1.5	ND	Pass	Spirotetramat	0.01	0.02	13	ND	Pass
Fenhexamid	0.004	0.01	10	ND	Pass	Spiroxamine	0.004	0.01	0.004	ND	Pass
Fenoxycarb	0.01	0.02	0.01	ND	Pass	Tebuconazole	0.01	0.04	2	ND	Pass
Fenpyroximate	0.01	0.02	2	ND	Pass	Thiacloprid	0.01	0.02	0.01	ND	Pass
Fipronil	0.01	0.04	0.01	ND	Pass	Thiamethoxam	0.01	0.03	4.5	ND	Pass
Fonicamid	0.01	0.02	2	ND	Pass	Trifloxystrobin	0.01	0.03	30	ND	Pass

Date Tested: 06/20/2019  
Method: UHPLC/MS/MS - SOP-026  
LOQ = Limit of Quantitation; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



*Renee Engle-Godner*

Renee Engle-Godner  
Lab Director  
06/25/2019

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## Microbials

Pass

Analyte	Limit	Result	Status
Shiga toxin-producing E. Coli	Not Detected in 1g	Not Detected in 1g	Pass
Salmonella	Not Detected in 1g	Not Detected in 1g	Pass



Date Tested: 06/20/2019  
Method: PCR/Fluorescence detection - SOP-033  
TNTC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.



*Renee L. Engle*

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## Mycotoxins

Analyte	LOD	LOQ	Limit	Units	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
B1	0.01	0.02		ND	Tested
B2	0.01	0.02		ND	Tested
G1	0.01	0.02		ND	Tested
G2	0.01	0.02		ND	Tested
Total Aflatoxins	0.01	0.02	20	ND	Pass
Ochratoxin A	0.01	0.02	20	ND	Pass



Date Tested: 06/20/2019  
Method: UHPLC/MS/MS  
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## Residual Solvents

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloroethane	0.2	0.8	1	ND	Pass
Acetone	0.2	225	5000	911.032	Pass
Acetonitrile	1.8	18	410	ND	Pass
Benzene	0.2	0.8	1	ND	Pass
Butane	24	240	5000	ND	Pass
Chloroform	0.3	0.9	1	ND	Pass
Ethanol	0.3	300	5000	ND	Pass
Ethyl acetate	1.2	120	5000	ND	Pass
Ethyl ether	1.5	150	5000	ND	Pass
Ethylene oxide	0.2	0.8	1	ND	Pass
Heptane	0.15	150	5000	ND	Pass
Isopropyl alcohol	0.2	150	5000	ND	Pass
Methanol	0.8	75	3000	ND	Pass
Methylene chloride	0.02	0.08	1	ND	Pass
Hexane	1.5	15	290	ND	Pass
Pentane	0.2	225	5000	ND	Pass
Propane	5	50	5000	ND	Pass
Toluene	0.45	45	890	ND	Pass
Trichloroethylene	0.2	0.8	1	ND	Pass
Total xylenes (ortho-, meta-, para-)	0.45	45	2170	ND	Pass

Date Tested: 06/18/2019  
Method: Headspace/GC-FID - SOP-028  
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*Renee L Goodner*

Renee Engle-Goodner  
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## Heavy Metals

Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.000124	0.05	1.5	<LOQ	Pass
Cadmium	0.000111	0.05	0.5	ND	Pass
Lead	0.000119	0.05	0.5	ND	Pass
Mercury	0.000097	0.05	3	ND	Pass



Date Tested: 06/24/2019  
Method: ICP/MS

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