

# Certificate of Quality Assurance

**PRODUCT NAME:** 25 mg Softgels  
**PRODUCT STRENGTH:** 25 mg  
**LOT NUMBER:** SG25-T029  
**MANUFACTURER LOT NUMBER:** JP021419GC2  
**DATE OF MANUFACTURE:** 1/29/19  
*Expiration date is 18 months under sealed conditions.*  
**DATE OF ANALYSIS:** 1/31/19  
**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil  
**INACTIVE INGREDIENTS:** Polysorbate Emulsifiers, MCT Oil, Beta Caryophyllene. **Gelatin Shell:** Bovine-derived Gelatin, Glycerin, Sorbitol and Water



## Analysis Results for Finished Product\*

Attribute	Acceptance Criteria	Result
Appearance	Light Yellow Oval Soft Gelatin Capsule	Conforms
Aroma	Characteristic	Conforms
Cannabinoid Content	25 mg active per Capsule (95-110% of Target), THC Not Detected	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <200 cfu/g	Conforms

## Cannabinoid Potency\*

Cannabinoid	Weight %
CBD	4.32
CBG	<0.03
CBN	<0.03
THC	ND
CBC	<0.03
THC-A	ND
CBD-A	<0.03

## Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

## Terpene Results\*\*

Compound	Weight %	Compound	Weight %
$\beta$ -Bisabolene	1.0-3.0	Camphene	0.1-0.2
$\beta$ -Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
$\beta$ -Maaliene	0.5-2.0	$\alpha$ -Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
$\beta$ -Caryophyllene	0.1-1.0	Linalool	< 0.1
$\alpha$ -Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
$\alpha$ -Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
$\alpha$ -Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	$\gamma$ -Terpinene	< 0.1
Eucalyptol	0.1-0.2	$\delta$ -3-Carene	< 0.1

## Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

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## Heavy Metals\*\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

\* Transcribed from manufacturer COA.

\*\* Results based on testing of multiple batches of hemp oil raw material.

Certified by:



Matthew Plenert, Ph.D  
Head Chemist and Quality Manager

4-5-19

Date