

# CERTIFICATE OF ANALYSIS

Customer Name: **Reef CBD**  
 Type: Phytocannabinoid Rich- Zero THC  
 Product Name: Raw Oil  
 LOT ID: A2419J6  
 Batch ID: CONO19-11  
 Date: 1/30/2019

# RAD2

Consultants & Innovation, LLC

| Specification         | Limit               | Result      |
|-----------------------|---------------------|-------------|
| Flavor                | Characteristic      | Hemp Flavor |
| Color/Appearance      | See Standard/visual | Dark Amber  |
| Microbial USP - Yeast | <10 CFU/gram        | PASS        |
| Microbial USP - Mold  | <10 CFU/gram        | PASS        |

| Potency       | Wt (%)       | (mg/g)       |
|---------------|--------------|--------------|
| THC (LC/MS)   | <0.001 ppm   | Not Detected |
| CBD (LC/MS)   | 90.03%       | 900.30       |
| CBD-A (LC/MS) | <0.03%       | <0.30        |
| CBC (LC/MS)   | <0.03%       | <0.30        |
| CBN (LC/MS)   | <0.03%       | <0.30        |
| CBG (LC/MS)   | <0.03%       | <0.30        |
| THC-A (LC/MS) | Not Detected | Not Detected |

| Residual Solvents | Compliant:        |
|-------------------|-------------------|
| Propane           | PASS w/ USP <467> |
| Isobutane         | PASS w/ USP <467> |
| Butane            | PASS w/ USP <467> |
| Ethanol           | PASS w/ USP <467> |
| Pentane           | PASS w/ USP <467> |
| Isopropanol       | PASS w/ USP <467> |
| Hexane            | PASS w/ USP <467> |
| Acetone           | PASS w/ USP <467> |

| Terpene:        | Wt. (%) | Terpene:    | Wt. (%) |
|-----------------|---------|-------------|---------|
| β-Bisabolene    | 1.0-3.0 | Camphene    | 0.1-0.2 |
| β-Farnesene     | 1.0-2.0 | E-Farnesene | 0.1-0.2 |
| Guaiol          | 0.5-2.0 | Farnesol    | 0.1-0.2 |
| β-Maaliene      | 0.5-2.0 | α-Bisabolol | <0.1    |
| Calarene        | 0.5-1.5 | P-Cymene    | <0.1    |
| β-Caryophyllene | 0.1-1.0 | Linalool    | <0.1    |
| α-Humulene      | 0.1-1.0 | Myrcene     | <0.1    |
| Cadinene        | 0.1-1.0 | Phytol      | <0.1    |
| α-Gurjunene     | 0.1-0.5 | Isopulegol  | <0.1    |
| d-Limonene      | 0.1-0.5 | Terpiene    | <0.1    |
| Nerolidol       | 0.1-0.5 | Geraniol    | <0.1    |
| α-Pinene        | 0.1-0.5 | γ-Terpinene | <0.1    |
| Aristolene      | 0.1-0.3 | δ-3-Carene  | <0.1    |
| Eucalyptol      | 0.1-0.2 |             |         |

| Pesticides:  | Wt. (%) | Pesticides:   | Wt. (%) |
|--------------|---------|---------------|---------|
| Acequinocyl  | N.D     | Spinosad      | N.D     |
| Pyrethrium   | N.D     | Spirotetermat | N.D     |
| Spiromesifen | N.D     | Bifenazate    | N.D     |
| Abamectin    | N.D     | Fenoxycarb    | N.D     |
| Imidacloprid | N.D     | Paclobutrazol | N.D     |

Approved By:  
 Deirdre Gormley, Ph.D.

