

Preparation of 40% CBD in MCT Oil Dilution

Doc # SOP -P-DS-07

Rev # 0

Issue Date: 8/31/2018

Page 1

PURPOSE: The purpose of this Standard Operating Procedure (SOP) is to ensure the customer can make a 40% oil dilution.

SCOPE: This SOP demonstrates how to make a 40% oil dilution using full spectrum cannabidiol (CBD) oil and medium-chain triglyceride (MCT) oil.

REFERENCES:

EQUIPMENT/MATERIALS:

- Full spectrum CBD oil
 - o Ensure oil is hot and pourable
- MCT oil
- Product scale
 - Accurate to 1g
- Container for final oil dilution
- Production oven

PREPARATION:

I. CALCULATIONS

- a. To complete calculations, customer will need to know desired final mass of dilution
- Calculate the mass of full spectrum CBD oil required to add to MCT oil for dilution
 - i. Desired final mass of dilution = W
 - ii. Purity of full spectrum CBD oil = X
 - iii. Mass of full spectrum CBD oil required = Y
 - iv. Mass of MCT oil required = Z
 - v. Y = (W*0.4)/X
 - vi. Z=W-Y

1. PHYSICAL PREPARATION:

- c. Container
 - i. Ensure a clean container is present for dilution
- d. Full spectrum CBD oil
 - i. Ensure oil is hot and pourable

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Page 2

PROCEDURE:

I. Using product scale, pour mass of full spectrum CBD oil required for dilution (Y) into container

- II. Pour mass of MCT oil required for dilution (Z) into container
- III. Using production oven, heat dilution, periodically mixing until homogenous



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Doc # SOP -P-DS-07 Rev # 0

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Page 3

APPENDIX A:

EXAMPLE CALCULATIONS

Dilution Parameters:

This example will solve for a theoretical 4 kg total mass, 40% CBD dilution using 80% full spectrum CBD oil

Calculations:

W = 4 kg

X = 0.8

Y = (W*0.4)/X

Z=W-Y

Y = (4 kg * 0.4)/0.8

Y = 2 kg

Z = 4 kg - 2 kg

Z = 2 kg

To make a 4 kg total mass, 40% CBD dilution with 80% full spectrum CBD oil, 2 kg of 80% full spectrum CBD oil and 2 kg of MCT oil must be mixed.

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