



## CERTIFICATE OF QUALITY ASSURANCE

<b>PRODUCT NAME:</b>	Cooking Oil Gold 800mg 200mL
<b>PRODUCT CODE:</b>	DBCBDCOOK800
<b>LOT NUMBER:</b>	34026CK

<b>ACTIVE INGREDIENT:</b>	THC-Free Hemp Oil		
<b>INACTIVE INGREDIENTS:</b>	Fractionated coconut oil (certified organic, non-GMO)		
<b>Attributes</b>	<b>Acceptance Criteria</b>	<b>Compliance</b>	<b>Compliance Protocol</b>
<i>Appearance</i>	Clear amber oil.	Pass	QCU002
<i>Odor</i>	Light hemp odor.	Pass	QCU002
<i>Color</i>	Light amber. Not turbid.	Pass	QCU002
<i>Dissolution</i>	Characteristic color. No turbidity. Homogenous.	Pass	QCU002
<i>Microbial Testing</i>	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Pass	USP<2021>

Cannabinoid Assay		Terpene Assay			
Compound	Wt. (mg)	Compound	Wt. (mg)	Compound	Wt. (mg)
CBD	800mg ±25.6mg	β-Bisabolene	0.19mg ±0.134mg	Camphene	0.014mg ±0.007mg
CBG	19.348mg ±0.619mg	β-Farnesene	0.142mg ±0.067mg	E-Farnesene	0.014mg ±0.007mg
CBG-A	33.649mg ±1.077mg	Guaiol	0.118mg ±0.101mg	Farnesol	0.014mg ±0.007mg
CBDV	12.589mg ±0.403mg	β-Maaliene	0.118mg ±0.101mg	α-Bisabolol	< 0.009mg
CBC	20.189mg ±0.646mg	Calarene	0.095mg ±0.067mg	P-Cymene	< 0.009mg
CBN	ND	β-Caryophyllene	0.052mg ±0.06mg	Linalool	< 0.009mg
THC	ND	α-Humulene	0.052mg ±0.06mg	Myrcene	< 0.009mg
THC-A	ND	Cadinene	0.052mg ±0.06mg	Phytol	< 0.009mg
CBDV-A	ND	α-Gurjunene	0.028mg ±0.027mg	Isopulegol	< 0.009mg
CBD-A	ND	δ-Limonene	0.028mg ±0.027mg	Terpinene	< 0.009mg
THCV	ND	Ncrolidol	0.028mg ±0.027mg	Geraniol	< 0.009mg
		α-Pinene	0.028mg ±0.027mg	Myrcene	< 0.009mg
		Aristolene	0.019mg ±0.013mg	γ-Terpinene	< 0.009mg
		Eucalyptol	0.014mg ±0.007mg	δ-3-Carene	< 0.009mg

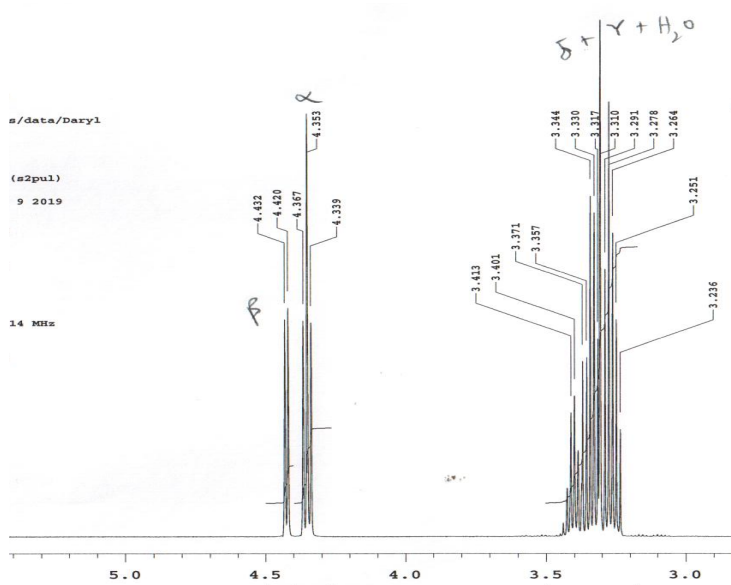
Pesticide Assay (HPLC*)	Result
Acequinocyl	Not Detected
Pyrethrium	Not Detected
Spiromesifen	Not Detected
Abamectin	Not Detected
Imidacloprid	Not Detected
Spinosad	Not Detected
Spirotetramat	Not Detected
Bifenazate	Not Detected
Fenoxycarb	Not Detected
Paclobutrazol	Not Detected
*High-performance liquid chromatography	

Batch and lot assays are conducted using a combination of HPLC, GC-MS, IR, and H1 NMR spectroscopic methods. All results are periodically confirmed using multiple 3rd-party testing services. Non-detections are tested using standard high performance liquid chromatography and mass spectrometry methods (in compliance with USP protocols). Every harvest is tested for pesticides using a third-party service using reporting limits (rl) established by the United States Environmental Protection Agency (EPA). Detailed analytical data is available to academic institutions, regulatory agencies, and other governmental bodies upon request. Please direct enquiries to [qualityassurance@deltacbd.com](mailto:qualityassurance@deltacbd.com). Where possible, note lot/batch number, date of purchase. Delta Botanicals performs analytical testing in association with Johns Hopkins University and National Institute on Drug Abuse as part of ongoing prospective observational studies. These data are suspected to be accurate within their associated errors for three years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Because these materials are sensitive to oxidation, they are, wherever possible during the manufacturing process, saturated with nitrogen and sealed within a nitrogen atmosphere for protection. If containers are opened for sampling, limit exposure of the product to ambient air and refill atmosphere with nitrogen to maintain accuracy within the above-stated expected error. Containers that have been opened should be tested every six (6) months to ensure potency. Although Delta Botanicals Inc. (DBI) believes the above information to be accurate based on the information available to DBI, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Delta Botanicals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided in this document shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to DBI standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

Residual Solvent Assay*	Compliance
Propane	Pass
Isobutane	Pass
Butane	Pass
Ethanol	Pass
Pentane	Pass
Isopropanol	Pass
Hexane	Pass
Acetone	Pass

Heavy Metals Assay*	Compliance
Arsenic	Pass
Cadmium	Pass
Lead	Pass
Mercury	Pass

\*Compliance with USP<233>



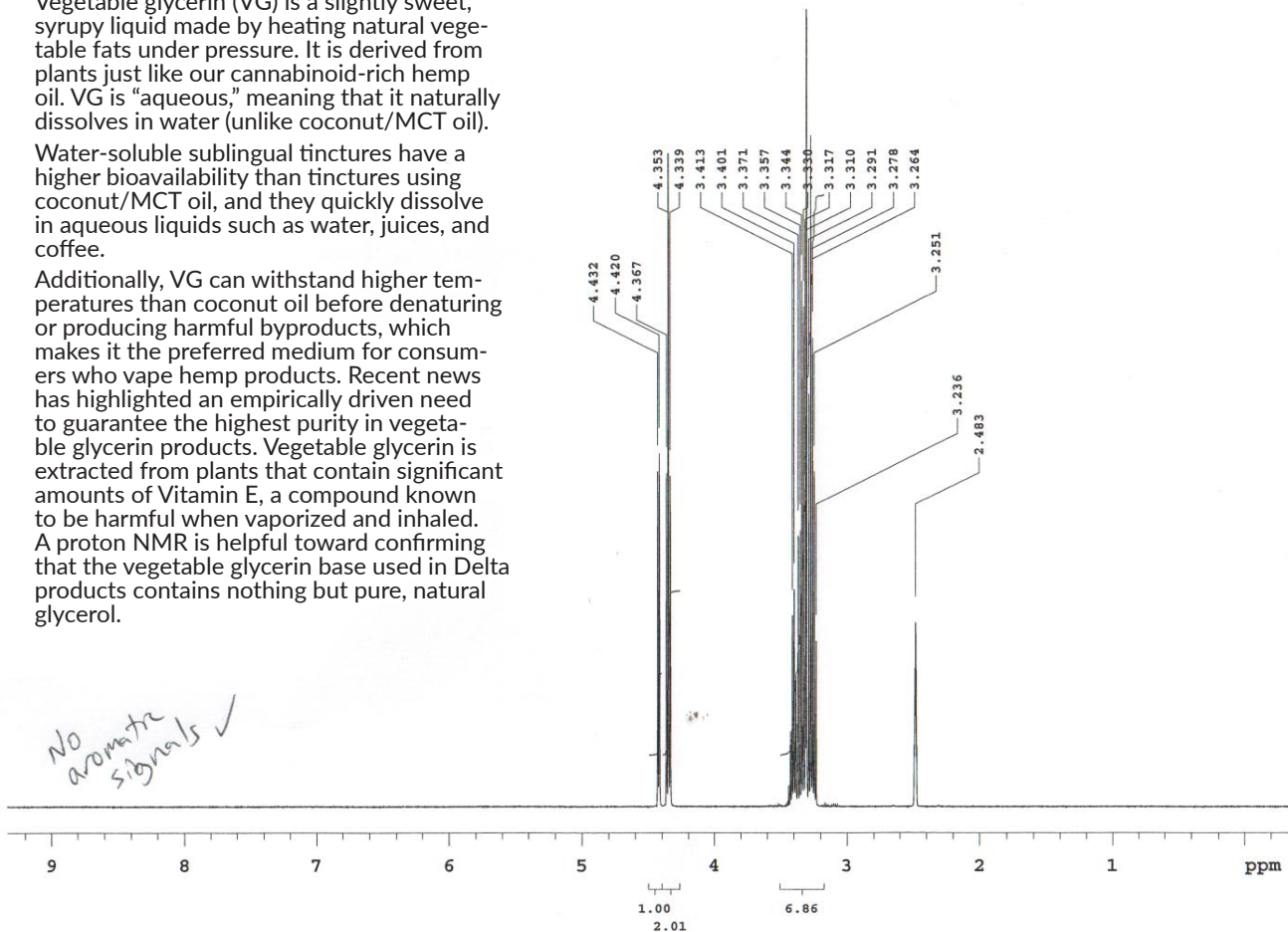
Vegetable Glycerin Assay (H1 NMR)	
Data collected on:	Agilent
Pulse Sequence:	PROTON (s2pul)
Solvent:	dms0
Date:	9/9/2019
Temp:	26.0 C / 299.1 K
Relax. Delay:	1.000 sec
Pulse:	45.0 degrees
Acq. Time:	2.556 sec
Width:	6410.3 Hz
Repetitions:	8
OBSERVE H1, 400.2417714 MHz	
DATA PROCESSING	
FT size 32768	
Total time: 0 min 28 sec	

## Glycerol (aka Vegetable Glycerin)

Vegetable glycerin (VG) is a slightly sweet, syrupy liquid made by heating natural vegetable fats under pressure. It is derived from plants just like our cannabinoid-rich hemp oil. VG is “aqueous,” meaning that it naturally dissolves in water (unlike coconut/MCT oil).

Water-soluble sublingual tinctures have a higher bioavailability than tinctures using coconut/MCT oil, and they quickly dissolve in aqueous liquids such as water, juices, and coffee.

Additionally, VG can withstand higher temperatures than coconut oil before denaturing or producing harmful byproducts, which makes it the preferred medium for consumers who vape hemp products. Recent news has highlighted an empirically driven need to guarantee the highest purity in vegetable glycerin products. Vegetable glycerin is extracted from plants that contain significant amounts of Vitamin E, a compound known to be harmful when vaporized and inhaled. A proton NMR is helpful toward confirming that the vegetable glycerin base used in Delta products contains nothing but pure, natural glycerol.



**MCT OIL 60/40 (MEDIUM CHAIN TRIGLYCERIDE)****CERTIFICATE OF ANALYSIS**

LOT: 20695

Date of Production: March, 2019

Expiration Date: March, 2022

Parameter:	Units	Limits		Results
		Min	Max	
Saponification Value	mgKOH/g	325	345	337.5
Acid Value	mgKOH/g		0.1	0.027
Color			100	15
Peroxide Value	meq O2/kg		1	0
Hydroxyl Value	mgKOH/g		5	2.8
Refractive Index @20°C		1.440	1.452	1.449
<b>Fatty Acid Composition</b>				
C:6:0 Caproic Acid	%		2	0
C:8:0 Caprylic Acid	%	50	65	61
C:10:0 Capric Acid	%	30	45	38.9
C:12:0 Lauric Acid	%		3	0.1



QR CODE FOR 3rd-party confirmation of organic certification (MCT oil).

Although Delta Botanicals Inc. (DBI) believes the above information to be accurate based on the information available to DBI, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Delta Botanicals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided in this document shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to DBI standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.



QR CODE FOR 3rd-party validation of analytical chemistry (specifically cannabinoid content of raw oil). Delta Botanicals periodically updates 3rd-party confirmation of analyses from multiple testing services available in the US including private institutions, academic institutions, and US government labs as part of ongoing pre-clinical prospective observational trials. DBI emphasizes that it is the responsibility of the customer and user of any Delta Botanicals products to perform his, her, or their own investigation and due diligence prior to use to verify that the product purchased from Delta Botanicals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided in this document shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material is subject to DBI standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.

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