



TGO 93 TFD002 CoA Template

Document Number: TPL-069

Approval Date:
19 Sep 2024

Version Number: 3.0

Page 1 of 5

CERTIFICATE OF ANALYSIS

PRODUCT IDENTIFICATION	
Item Number/Spec Number	TFD002 / SPEC-010
Lot number	VH240088
Sample ID	14474982
Description	T-Free Distillate – TGO 93 Compliant
Manufacture Date	04SEP2024
Expiration Date	04SEP2025
Supplier	Vantage Hemp

FINAL PRODUCT SPECIFICATION CONFORMANCE SUMMARY	
SPECIFICATION	RESULTS
Physical Properties:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabinoid Profile:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Microbial:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Foreign Matter:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Ash:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mycotoxins:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Heavy Metals:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Pesticides:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Approved for:	<input checked="" type="checkbox"/> Released Inventory <input type="checkbox"/> Out of Specification INV#: _____

Prepared By:

Coby Baer
Coby Baer (Sep 19, 2024 15:58 MDT)

Sep 19, 2024

Date

Approved By:

Natalie Marks
Natalie Marks (Sep 19, 2024 16:14 MDT)

Sep 19, 2024

Date

**TGO 93 TFD002 CoA Template**

Document Number: TPL-069

Approval Date:
19 Sep 2024

Version Number: 3.0

Page 2 of 5

PHYSICAL PROPERTIES**METHOD: SOP-QC-013**

Characteristic	Specifications	Results
Consistency	Semi-solid to solid	Solid
Color	Yellow/amber to dark brown	Dark brown
Smell	Pungent, earthy smell	Pungent, earthy smell

CANNABINOID PROFILE**METHOD: IHCBD_S / AOAC 2018.11**

SUBSTANCE:		SPECIFICATION (%w/w):	RESULTS (report %w/w)
CBD	Cannabidiol	70-95%	82.1
THC	Total THC	<0.099%	<0.0250

MICROBIALS**Ph Eur 2.6.12 / 2.6.13 USP Chapter 61 / 62 BP Appendix XVI B**

SUBSTANCE:	SPECIFICATION:	RESULTS:
Total Aerobic Microbial Count	$\leq 10^3$ cfu per g or mL	220 (est) CFU/g
Total Yeast and Mold Count	$\leq 10^2$ cfu per g or mL	70 (est) CFU/g
Bile-Tolerant Gram-Negative Bacteria	Absence of bile tolerant gram-negative bacteria in 1g/mL	Absent/1g
Salmonella	Absent in 10g or 10 mL	Absent/10g
Escherichia Coli	Absent in 1g/mL	Absent/10g
Staphylococcus aureus	Absent in 1g/mL	Absent/10g

**TGO 93 TFD002 CoA Template**

Document Number: TPL-069

Approval Date:
19 Sep 2024

Version Number: 3.0

Page 3 of 5

FOREIGN MATTER**METHOD: Ph Eur 2.8.2**

CHARACTERISTIC:	SPECIFICATION (%):	RESULTS (%):
Foreign Matter	≤ 2.0 %	Free of foreign material

TOTAL ASH**METHOD: Ph Eur 2.4.16**

SUBSTANCE:	SPECIFICATION (%):	RESULT (%):
Ash	≤ 20.0 %	<0.10

MYCOTOXIN PANEL**METHOD: Ph Eur 2.8.18 / Ph Eur 2.8.22**

SUBSTANCE:	SPECIFICATION (ppb):	RESULTS (ppb):
Aflatoxins (total of B1, B2, G1, and G2)	≤ 4 ppb	<2.00 ppb
Aflatoxin B1	≤ 2 ppb	<0.500 ppb
Ochratoxin A	≤ 20 ppb	<1.00 ppb

HEAVY METALS**METHOD: Ph 2.4.27**

SUBSTANCE	SPECIFICATION (ppb):	RESULTS (ppb):
Arsenic	≤ 3000 PPB	<10.0ppb
Cadmium	≤ 500 PPB	<5.00ppb
Lead	≤ 5000 PPB	<5.00ppb
Mercury	≤ 500 PPB	<5.00ppb

**TGO 93 TFD002 CoA Template**

Document Number: TPL-069

Approval Date:
19 Sep 2024

Version Number: 3.0

Page 4 of 5

PESTICIDE PANEL**METHOD : EP 2.8.13 GC- MS/MS**

SUBSTANCE	LIMIT (MG/KG)	RESULTS
Acephate	0.1	PASS
Alachlor	0.05	PASS
Aldrin and Dieldrin (sum of)	0.05	Non-analyzable
Azinphos-methyl	1.0	PASS
Bromopropylate	3.0	PASS
Chlordane (sum of <i>cis</i> -, <i>trans</i> - and Oxythlordane)	0.05	PASS
Chlorfenvinphos	0.5	PASS
Chlorpyrifos	0.2	PASS
Chlorpyrifos-methyl	0.1	PASS
Cypermethrin (and isomers)	1.0	PASS
DDT (sum of <i>p,p'</i> -DDT, <i>o,p'</i> -DDT, <i>p,p'</i> -DDE and <i>p,p'</i> -TDE)	1.0	PASS
Deltamethrin	0.5	PASS
Diazinon	0.5	PASS
Dichlorvos	1.0	PASS
Dithiocarbamates (as CS ₂)	2.0	PASS
Endosulfan (sum of isomers and Endosulfan sulphate)	3.0	PASS
Endrin	0.05	Non-analyzable
Ethion	2.0	PASS
Fenitrothion	0.5	PASS
Fenvalerate	1.5	PASS
Fonofos	0.05	PASS
Heptachlor (sum of Heptachlor and Heptachlorepoide)	0.05	PASS
Hexachlorobenzene	0.1	PASS
Hexachlorocyclohexane isomers (other than α)	0.3	PASS
Lindane (α -Hexachlorocyclohexane)	0.6	PASS
Malathion	1.0	PASS
Methidathion	0.2	PASS
Parathion	0.5	PASS
Parathion-methyl	0.2	PASS
Permethrin	1.0	PASS
Phosalone	0.1	PASS
Piperonyl butoxide	3.0	PASS
Pirimiphos-methyl	4.0	PASS
Pyrethrins (sum of)	3.0	PASS
Quintozene (sum of quintozene, pentachloroaniline and methyl pentachlorophenyl sulphide)	1.0	PASS



TGO 93 TFD002 CoA Template

Document Number: TPL-069

Approval Date:
19 Sep 2024

Version Number: 3.0

Page 5 of 5

VERSION HISTORY TABLE

VER	DCC Number	Description of Change
1	DCC-2024-0027	Initial release
2	DCC-2024-0109	Corrected limits for TAMC and TYMC to align with API limits. Added Acephate to the pesticide table and corrected limits for Alachlor from 0.02mg/kg to 0.05mg/kg. Corrected to potency method to reflect potency testing at Eurofins with %w/w values. Added in potency limits. Added Staphylococcus Aureus to the micro table.

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Sample Name:	CN20240814001 VH240088 TFD002 T-Free Distil	Eurofins Sample:	14474982
Project ID	VANTAGE_HE-20240904-0048	Receipt Date	06-Sep-2024
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	(CN20240814001) VH240088	Login Date	04-Sep-2024
Description	T-Free Distillate RS24-0142	Date Started	09-Sep-2024
		Sampled	Sample results apply as received
		Online Order	901-2024-E065459

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	None detected at detection limit of 0.0042 %
CBDV	1.74 %
CBDA	None detected at detection limit of 0.0042 %
CBGA	None detected at detection limit of 0.0042 %
CBG	1.23 %
CBD	82.1 %
THCV	0.0481 %
CBN	None detected at detection limit of 0.0042 %
Delta 9-THC	<0.0250 %
Delta 8-THC	None detected at detection limit of 0.0167 %
THCA	None detected at detection limit of 0.0167 %
CBC	None detected at detection limit of 0.0083 %
THCVA	None detected at detection limit of 0.0042 %
CBNA	None detected at detection limit of 0.0042 %
CBCA	None detected at detection limit of 0.0167 %
CBL	None detected at detection limit of 0.0042 %
Total Cannabinoids	85.1 %
Total THC (THC + (THCA x 0.877))	<0.0250 %
Total CBD (CBD + (CBDA x 0.877))	82.1 %
Total Content of Dithiocarbamates (DTCs) expressed as CS2	
Total Content of Dithiocarbamates (DTCs) expressed as CS2	<2 mg/kg

* This analysis or component is not ISO accredited.

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Sample Name:	CN20240814001 VH240088 TFD002 T-Free Distil	Eurofins Sample:	14474982
Project ID	VANTAGE_HE-20240904-0048	Receipt Date	06-Sep-2024
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	(CN20240814001) VH240088	Login Date	04-Sep-2024
Description	T-Free Distillate RS24-0142	Date Started	09-Sep-2024
		Sampled	Sample results apply as received
		Online Order	901-2024-E065459

Analysis	Result
Ash *	
Method Name	0.12008.20416
Ash	<0.10 %
Aerobic Plate Count *	
Aerobic Plate Count	220 (est) CFU/g
E. coli *	
Escherichia Coli	Absent /10 g
Enterobacterial count (MPN *)	
Bile-Tolerant Gram-Negative Bacteria	Absent /1 g
Salmonella USP *	
Salmonella	Absent /10 g
Staphylococcus *	
Staphylococcus Aureus	Absent /10 g
Yeast and Mold Count *	
Combined Yeast and Mold Count	70 (est) CFU/g
Preparatory Testing of Nutritional and Dietary Supplements *	
E. coli Suitability Result	PASS
Elements by ICP Mass Spectrometry	
Lead	<5.00 ppb
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Mercury	<5.00 ppb
Mycotoxins in Raw Materials	
Aflatoxin B1	<0.500 ppb
Aflatoxin B2	<0.500 ppb
Aflatoxin G1	<0.500 ppb
Aflatoxin G2	<0.500 ppb
Ochratoxin A	<1.00 ppb
Sum of Aflatoxins B1, B2, G1, and G2	<2.00 ppb

Analysis	Limit	Result	Pass/Fail
----------	-------	--------	-----------

* This analysis or component is not ISO accredited.

Printed: 16-Sep-2024 1:04 pm

Page 2 of 8

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Sample Name:	CN20240814001 VH240088 TFD002 T-Free Distil	Eurofins Sample:	14474982
Project ID	VANTAGE_HE-20240904-0048	Receipt Date	06-Sep-2024
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	(CN20240814001) VH240088	Login Date	04-Sep-2024
Description	T-Free Distillate RS24-0142	Date Started	09-Sep-2024
		Sampled	Sample results apply as received
		Online Order	901-2024-E065459

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - EP 2.8.13/USP <561> regulations			
Acephate	0.1 mg/kg	<0.1 mg/kg	Pass
Alachlor	0.05 mg/kg	<0.05 mg/kg	Pass
Aldrin and dieldrin (sum of)	0.05 mg/kg	non-analyzable	
Azinphos-ethyl	0.1 mg/kg	<0.1 mg/kg	Pass
Azinphos-methyl	1 mg/kg	<1 mg/kg	Pass
Bromophos-ethyl	0.05 mg/kg	<0.05 mg/kg	Pass
Bromophos-methyl	0.05 mg/kg	<0.05 mg/kg	Pass
Bromopropylate	3 mg/kg	<3 mg/kg	Pass
Chlordane (sum of cis- and trans- isomers and oxychlordane)	0.05 mg/kg	<0.05 mg/kg	Pass
Chlorfenvinphos	0.5 mg/kg	<0.5 mg/kg	Pass
Chlorpyrifos-ethyl	0.2 mg/kg	<0.2 mg/kg	Pass
Chlorpyrifos-methyl	0.1 mg/kg	<0.1 mg/kg	Pass
Chlorthal-dimethyl	0.01 mg/kg	non-analyzable	
Cyfluthrin (sum of isomers)	0.1 mg/kg	<0.1 mg/kg	Pass
Cyhalothrin, lambda-	1 mg/kg	<1 mg/kg	Pass
Cypermethrin (sum of isomers)	1 mg/kg	<1 mg/kg	Pass
DDT (sum of o,p'-DDT, p,p'-DDT, o,p'-DDE, p,p'-DDE, o,p'-DDD, and p,p'-DDD)	1 mg/kg	<1 mg/kg	Pass
Deltamethrin	0.5 mg/kg	<0.5 mg/kg	Pass
Diazinon	0.5 mg/kg	<0.5 mg/kg	Pass
Dichlofluanid	0.1 mg/kg	<0.1 mg/kg	Pass
Dichlorvos	1 mg/kg	<1 mg/kg	Pass
Dicofol	0.5 mg/kg	non-analyzable	
Dimethoate and omethoate (sum of)	0.1 mg/kg	<0.1 mg/kg	Pass
Endosulfan (sum of isomers and endosulfan sulfate)	3 mg/kg	<3 mg/kg	Pass
Endrin	0.05 mg/kg	<0.05 mg/kg	Pass
Ethion	2 mg/kg	<2 mg/kg	Pass
Etrimphos	0.05 mg/kg	<0.05 mg/kg	Pass

* This analysis or component is not ISO accredited.

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Sample Name:	CN20240814001 VH240088 TFD002 T-Free Distil	Eurofins Sample:	14474982
Project ID	VANTAGE_HE-20240904-0048	Receipt Date	06-Sep-2024
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	(CN20240814001) VH240088	Login Date	04-Sep-2024
Description	T-Free Distillate RS24-0142	Date Started	09-Sep-2024
		Sampled	Sample results apply as received
		Online Order	901-2024-E065459

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - EP 2.8.13/USP <561> regulations			
Fenchlorphos (sum of fenchlorphos and fenchlorphos-oxon)	0.1 mg/kg	<0.1 mg/kg	Pass
Fenitrothion	0.5 mg/kg	<0.5 mg/kg	Pass
Fenpropathrin	0.03 mg/kg	non-analyzable	
Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxonsulfon and fensulfothion-sulfon)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon-sulfon, fenthion-oxon-sulfoxid, fenthion-sulfon and fenthion-sulfoxid)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenvalerate	1.5 mg/kg	<1.5 mg/kg	Pass
Flucythrinate	0.05 mg/kg	<0.05 mg/kg	Pass
Fluvalinate, tau-	0.05 mg/kg	<0.05 mg/kg	Pass
Fonofos	0.05 mg/kg	<0.05 mg/kg	Pass
Heptachlor (sum of heptachlor, cis-heptachlorepoxide and trans-heptachlorepoxide)	0.05 mg/kg	<0.05 mg/kg	Pass
Hexachlorobenzene	0.1 mg/kg	<0.1 mg/kg	Pass
Hexachlorocyclohexane isomers (other than gamma)	0.3 mg/kg	<0.3 mg/kg	Pass
Lindane (gamma-hexachlorocyclohexane)	0.6 mg/kg	<0.6 mg/kg	Pass
Malathion and malaaxon (sum of)	1 mg/kg	<1 mg/kg	Pass
Mecarbam	0.05 mg/kg	<0.05 mg/kg	Pass
Methacriphos	0.05 mg/kg	<0.05 mg/kg	Pass
Methamidophos	0.05 mg/kg	<0.05 mg/kg	Pass
Methidathion	0.2 mg/kg	<0.2 mg/kg	Pass
Methoxychlor	0.05 mg/kg	non-analyzable	
Mirex	0.01 mg/kg	non-analyzable	
Monocrotophos	0.1 mg/kg	<0.1 mg/kg	Pass
Parathion-ethyl and paraoxon-ethyl (sum of)	0.5 mg/kg	<0.5 mg/kg	Pass
Parathion-methyl and paraoxon-methyl (sum of)	0.2 mg/kg	<0.2 mg/kg	Pass

* This analysis or component is not ISO accredited.

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Sample Name:	CN20240814001 VH240088 TFD002 T-Free Distil	Eurofins Sample:	14474982
Project ID	VANTAGE_HE-20240904-0048	Receipt Date	06-Sep-2024
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	(CN20240814001) VH240088	Login Date	04-Sep-2024
Description	T-Free Distillate RS24-0142	Date Started	09-Sep-2024
		Sampled	Sample results apply as received
		Online Order	901-2024-E065459

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - EP 2.8.13/USP <561> regulations			
Pendimethalin	0.1 mg/kg	<0.1 mg/kg	Pass
Pentachloranisol	0.01 mg/kg	<0.01 mg/kg	Pass
Permethrin (sum of isomers)	1 mg/kg	<1 mg/kg	Pass
Phosalone	0.1 mg/kg	<0.1 mg/kg	Pass
Phosmet	0.05 mg/kg	<0.05 mg/kg	Pass
Piperonyl butoxide	3 mg/kg	<3 mg/kg	Pass
Pirimiphos-ethyl	0.05 mg/kg	<0.05 mg/kg	Pass
Pirimiphos-methyl (sum of pirimiphos-methyl and N-desethyl-pirimiphos-methyl)	4 mg/kg	<4 mg/kg	Pass
Procymidone	0.1 mg/kg	<0.1 mg/kg	Pass
Profenophos	0.1 mg/kg	<0.1 mg/kg	Pass
Prothiophos	0.05 mg/kg	<0.05 mg/kg	Pass
Pyrethrum (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I, and pyrethrin II)	3 mg/kg	<3 mg/kg	Pass
Quinalphos	0.05 mg/kg	<0.05 mg/kg	Pass
Quintozene (sum of quintozene, pentachloraniline and methyl pentachlorophenyl sulfide)	1 mg/kg	<1 mg/kg	Pass
S-421	0.02 mg/kg	<0.02 mg/kg	Pass
Tecnazene	0.05 mg/kg	<0.05 mg/kg	Pass
Tetradifon	0.3 mg/kg	<0.3 mg/kg	Pass
Vinclozolin	0.4 mg/kg	<0.4 mg/kg	Pass

Method References

Testing Location

Aerobic Plate Count (USPC2021)

Eurofins Micro Lab - Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

* This analysis or component is not ISO accredited.

Printed: 16-Sep-2024 1:04 pm

Page 5 of 8

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Method References

Testing Location

Aerobic Plate Count (USPC2021)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Ash (ASHTOTAL_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

European Pharmacopeia, 11th Edition, Online Version, Directorate for the Quality of Medicines of the Council of Europe, Strasbourg Cedex, France (2022).

E. coli (USPE2022)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2022.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, Methods 2011.19 and 993.14, and 2015.01, AOAC INTERNATIONAL, (Modified).

Enterobacterial count (MPN (USPN_62))

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP current revision, Chapter 62.

To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).

* This analysis or component is not ISO accredited.

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Method References

Testing Location

Multi-Residue Analysis for hemp products - EP 2.8.13/USP <561> regulations (PEST_HEMP)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," *Analytical and BioAnalytical Chemistry*, 402:2675-2686 (2012).

Preparatory Testing of Nutritional and Dietary Supplements (USPE_PT)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Salmonella USP (USPS2022)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2022.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Staphylococcus (USPA2022)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2022.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Certificate of Analysis

Vantage Hemp

2336 115th Ave
Greeley Colorado 80634 United States

Method References

Testing Location

Total Content of Dithiocarbamates (DTCs) expressed as CS₂ (DTC_S)

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Hayama, T. and Takada, M., "Simple and Rapid method for the determination of Ethylenebisdithiocarbamate Fungicides in Fruits and Vegetables Using Liquid Chromatography with Tandem Mass Spectrometry," *Anal. Bioanal. Chem.*, 392:969-976 (2008).

Yeast and Mold Count (USPM2021)

Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison


Edward Ladwig - President Eurofins Food Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375



2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins. Measurement uncertainty for individual analyses can be obtained upon request.

	Physical Properties Test Report	
	Document Number: FRM-QC-021 Governing SOP: SOP-QC-013	Effective Date: 13 Jun 2023
	Version Number: 3.0	Page 1 of 2

QC Test Report – Physical Properties

Product Identification						
QC Sample ID	Item #	Control #	Lot #	Description	Performed By (initials and date)	Verified By (initials and date)
RS24-0142	TFD002	N/A	VH240088	T-Free Distillate	CB16Sep2024	Nmm 17 Sep 2024

Extracts and Finished Goods					<input type="checkbox"/> N/A
Criteria	Specification	Result	Performed By (initials and date)	Verified By (initials and date)	
Appearance:	N/A	N/A	N/A	N/A	
Consistency:	Semi-solid to solid	Solid	CB16Sep2024	Nmm 17 Sep 2024	
Color:	Yellow/amber to dark brown	dark brown	CB16Sep2024	Nmm 17 Sep 2024	
Foreign Materials:	Free of foreign materials	Free of foreign materials	CB16Sep2024	Nmm 17 Sep 2024	
Odor:	Pungent, earthy smell	Pungent, earthy smell	CB16Sep2024	Nmm 17 Sep 2024	

Biomass					<input checked="" type="checkbox"/> N/A
Criteria	Specification	Result	Performed By (initials and date)	Verified By (initials and date)	
Moisture (Visual):					
Color:					
Odor:					

Raw Materials					<input checked="" type="checkbox"/> N/A
Criteria	Specification	Result	Performed By (initials and date)	Verified By (initials and date)	
Consistency:					
Color:					



Physical Properties Test Report

Document Number: **FRM-QC-021**
Governing SOP: SOP-QC-013

Effective Date:
13 Jun 2023

Version Number: 3.0

Page 2 of 2

Odor:

Additional Observations

N/A

Footnote #:

Observation

REV	CR Number	Description of Change
1	DCC-2022-0059	Initial Release
2	DCC-2022-0069	Updates to the Physical Properties SOP and associated form to include instructions and test reports for incoming raw materials.
3	DCC-2023-0109	Update to 12pt Times New Roman and include performed by/verified by columns, N/A boxes, and appearance category.