

Certificate of Analysis

Viva Herbals and Essentials

84 Hedge Row Lane
Commack New York 11725 United States

Sample Name:	Chi Tea Pro	Eurofins Sample:	10186777
Project ID	VIVA_HER_E-20210108-0001	Receipt Date	08-Jan-2021
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	2011165	Login Date	08-Jan-2021
Sample Serving Size		Date Started	11-Jan-2021
		Sampled	Sample results apply as received
		Online Order	20

Analysis	Result
Determination of Total Catechins and Caffeine by UPLC *	
Epigallocatechin Gallate	52800 mcg/g
Caffeine	756 mcg/g
Determination of Total Polyphenol with Gallic Acid by UV/Vis Spectrophotometer *	
Total Polyphenol	100 mg/g
Fluoride (by Ion Selective Electrode) *	
Fluoride	0.791 ppm
Elements by ICP Mass Spectrometry	
Arsenic	13.2 ppb
Cadmium	5.54 ppb
Lead	16.2 ppb
Mercury	<5.00 ppb
USP 561 Pesticides Package *	
USP 561 Pesticides Package	USP 561 Pesticides Package

Analysis	Limit	Result	Pass/Fail
Total Content of Dithiocarbamates (DTCs) expressed as CS2 *			
Total Content of Dithiocarbamates (DTCs) expressed as CS2	2 mg/kg	<2.00 mg/kg	Pass
Bromide *			
Bromide, inorganic (calculated as Bromide Ion)	125 mg/kg	<125 mg/kg	Pass
GC-MS/MS and LC-MS/MS Multi-Residue Analysis *			
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	<0.05 mg/kg	Pass
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

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Analysis	Limit	Result	Pass/Fail
GC-MS/MS and LC-MS/MS Multi-Residue Analysis *			
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	<0.01 mg/kg	Pass
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	<0.5 mg/kg	Pass
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
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	<0.03 mg/kg	Pass
Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxon sulfone and fensulfothion sulfone)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon sulfone, fenthion-oxon sulfoxide, fenthion sulfone and fenthion sulfoxide)	0.05 mg/kg	<0.05 mg/kg	Pass
Fenvalerate	1.5 mg/kg	<1.5 mg/kg	Pass

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Lot Number	2011165	Login Date	08-Jan-2021
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Analysis	Limit	Result	Pass/Fail
GC-MS/MS and LC-MS/MS Multi-Residue Analysis *			
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 and cis- and trans-heptachlor epoxides)	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 malaoxon (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	<0.05 mg/kg	Pass
Mirex	0.01 mg/kg	<0.01 mg/kg	Pass
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
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

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Analysis	Limit	Result	Pass/Fail
GC-MS/MS and LC-MS/MS Multi-Residue Analysis *			
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, pentachloroaniline 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
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Bromide (EC_MEBR_S)

Eurofins Central Analytical Laboratories
2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 USA

Community Reference Laboratory for Single Residue Methods, CVUA, Stuttgart, Schaglandstr 3/2, 70736 Fellbach, Germany.
T. Stijve, Gas Chromatographic Determination of Inorganic Bromide Residues - a Simplified Procedure, Dtsch. Lebenm Rundschr 77 99-101 (1981).
Deutsche Forschungsgemeinschaft (DFG), Manual of Pesticide Residue Analysis, Volume I by Verlag Chemie, 1987 ISBN 3-527-27010-8

Determination of Total Catechins and Caffeine by UPLC (OC_CATE_S)

Food Integrity Innovation-Brea
2951 Saturn Street, Unit C Brea, CA 92821 USA

Internally Developed Method

Determination of Total Polyphenol with Gallic Acid by UV/Vis Spectrophotometer (OC_TOTP_S)

Food Integrity Innovation-Brea
2951 Saturn Street, Unit C Brea, CA 92821 USA

Hauser method 1913.005

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Method References

Testing Location

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).
Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Fluoride (by Ion Selective Electrode) (FSIE_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Standard Methods for the Examination of Water and Wastewater, 17th Ed.
Method 4500-F-C, APHA, AWWA, WPCF, Washington, D.C. (1989). (Modified)

Food Chemical Codex, Sixth Ed., pp 1077-1078, National Academy Press:
Washington, D.C., (2009). (Modified)

GC-MS/MS and LC-MS/MS Multi-Residue Analysis (EC_PS01_S)

Eurofins Central Analytical Laboratories

2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 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.

Please contact us if you want a complete listing of all compounds determined during testing.

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

Eurofins Central Analytical Laboratories

2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 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).

USP 561 Pesticides Package (EC_USP561)

Eurofins Central Analytical Laboratories

2219 Lakeshore Dr Suite 500 New Orleans, LA 70122 USA

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Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Brea****Robert Grahn - Manager**

Eurofins Food Chemistry Testing US, Inc.
2951 Saturn Street
Unit C
Brea CA 92821
800-675-8375

Food Integrity Innovation-Madison**Edward Ladwig - President Eurofins Food
Chemistry Testing Madison**

Eurofins Food Chemistry Testing Madison, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



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