

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Thermodrene XT F17153	Covance Sample:	6209058
Project ID	STACKER2-20170606-0001	Receipt Date	06-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size	1 Cap	Login Date	06-Jun-2017
		Online Order	30

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.5935 g
Entity Weight	0.5935 g
Entity Fill Weight	0.5184 g
Entity Weight	0.5928 g
Entity Fill Weight	0.4992 g
Water Soluble Vitamins by LC-MS/MS	
Pyridoxine	2.30 mcg/Serving Size
Yohimbe *	
Yohimbe	Not Detected
Elements by ICP Mass Spectrometry	
Cadmium	<0.00594 mcg/Serving Size
Lead	0.0251 mcg/Serving Size
Mercury	<0.00594 mcg/Serving Size
Mycotoxins in Raw Materials	
Aflatoxin B1	<0.500 mcg/kg
Aflatoxin B2	<0.500 mcg/kg
Aflatoxin G1	<0.500 mcg/kg
Aflatoxin G2	<0.500 mcg/kg
Aflatoxin M1	<0.500 mcg/kg
Aflatoxin M2	<0.500 mcg/kg
Deoxynivalenol	<100 mcg/kg
T-2 Toxin	<10.0 mcg/kg
HT-2 Toxin	<100 mcg/kg
Fumonisin B1	<25.0 mcg/kg
Fumonisin B2	<25.0 mcg/kg
Ochratoxin A	<1.00 mcg/kg
Zearalenone	<30.0 mcg/kg
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
1-Phenylethylamine	<49.9 mcg/Serving Size
2-Methylamino-1-phenylbutane	<0.998 mcg/Serving Size
2-Phenylethylamine	<49.9 mcg/Serving Size
Aegeline	<9.98 mcg/Serving Size
Amphetamine	<0.499 mcg/Serving Size
Benfluorex	<4.99 mcg/Serving Size
Benzphetamine	<0.499 mcg/Serving Size
Benzyl Sibutramine	<0.499 mcg/Serving Size
Bisacodyl	<0.499 mcg/Serving Size

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Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Bumetanide	<4.99 mcg/Serving Size
Bupropion	<0.499 mcg/Serving Size
Cetilistat	<49.9 mcg/Serving Size
Chloro-Sibutramine	<0.998 mcg/Serving Size
Dapoxetine	<4.99 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.499 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.499 mcg/Serving Size
Ephedrine, methylpseudo-	<0.499 mcg/Serving Size
Ephedrine, methyl-	<0.499 mcg/Serving Size
Ephedrine, nor-	<0.499 mcg/Serving Size
Ephedrine, norpseudo-	<0.499 mcg/Serving Size
Ephedrine, pseudo-	<0.499 mcg/Serving Size
Fenfluramine	<0.499 mcg/Serving Size
Fenproporex	<0.499 mcg/Serving Size
Fluoxetine	<4.99 mcg/Serving Size
Furosemide	<49.9 mcg/Serving Size
Glybenclamide	<4.99 mcg/Serving Size
Homosibutramine	<0.998 mcg/Serving Size
Hordenine	<2.50 mcg/Serving Size
Lorcaserin	<4.99 mcg/Serving Size
Metformin	<4.99 mcg/Serving Size
Methylphenethylamine, beta	<0.499 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.499 mcg/Serving Size
N-Desmethyl sertraline	<4.99 mcg/Serving Size
N-Desmethyl sibutramine	<0.499 mcg/Serving Size
N-Didesmethyl sibutramine	<0.998 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.499 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<0.998 mcg/Serving Size
NIDA-41020	<0.998 mcg/Serving Size
N-Methyltryptamine	<0.998 mcg/Serving Size
N-Methyltyramine	<0.499 mcg/Serving Size
Octopamine	<499 mcg/Serving Size
Orlistat	<4.99 mcg/Serving Size
Paroxetine	<0.998 mcg/Serving Size
Phendimetrazine	<0.499 mcg/Serving Size
Phenolphthalein	<4.99 mcg/Serving Size

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Phentermine	<0.998 mcg/Serving Size
Phenytoin	<49.9 mcg/Serving Size
Picamilon	<4.99 mcg/Serving Size
Propranolol	<2.50 mcg/Serving Size
Rimonabant	<0.998 mcg/Serving Size
Sertraline	<0.499 mcg/Serving Size
Sibutramine	<0.499 mcg/Serving Size
Synephrine	<4.99 mcg/Serving Size
Theobromine	1020 mcg/Serving Size
Theophylline	72.8 mcg/Serving Size
Topiramate	<9.98 mcg/Serving Size
Tyramine	35.8 mcg/Serving Size
Polycyclic Aromatic Hydrocarbons-Low Level *	
Benz(a)anthracene	0.000335 mcg/Serving Size
Benzo(a)pyrene	0.000229 mcg/Serving Size
Benzo(b)fluoranthene	0.000253 mcg/Serving Size
Benzo(g,h,i)perylene	0.000216 mcg/Serving Size
Benzo(k)fluoranthene	0.000252 mcg/Serving Size
Chrysene	0.000359 mcg/Serving Size
Dibenz(a,h)anthracene	<0.000125 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	<0.000125 mcg/Serving Size
Pyrene	0.000784 mcg/Serving Size

Method References	Testing Location
Calculated Sample Weight (PREP)	Covance Laboratories - Madison
Calculated Sample Weight (PREP_HAR)	Covance Laboratories - Harrogate
Elements by ICP Mass Spectrometry (ICP_MS_S)	Covance Laboratories - Harrogate
Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).	
Mycotoxins in Raw Materials (MYCO_REG_S)	Covance Laboratories - Harrogate
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).	

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Method References

Testing Location

Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)

Covance Laboratories - Madison

Covance Inc. developed method

Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)

Covance Laboratories - Madison

Lukas Vaclavik, Alexander J. Krynitsky, Jeanne I. Rader, "Mass spectrometric analysis of pharmaceutical adulterants in products labeled as botanical dietary supplements or herbal remedies: a review.," Analytical and Bioanalytical Chemistry, 27: 6767-6790 (2014).

B.J. Venhuisa, M.E. Zwaagstrab, P.H.J. Keizersa, D. de Kaste, "Dose-to-dose variations with single packages of counterfeit medicines and adulterated dietary supplements as a potential source of false negatives and inaccurate health risk assessments," Journal of Pharmaceutical and Biomedical Analysis, 89:158-165 (2014).

Daniel J. Mansa, Ashley C. Gucinskia, Jamie D. Dunna, Connie M. Gryniewicz-Ruzicka, Laura C. Mecker-Poguea, Jeff L.-F. Kaob, Xia Geb, "Rapid screening and structural elucidation of a novel sibutramine analogue in a weight loss supplement: 11-Desisobutyl-11-benzylsibutramine," Journal of Pharmaceutical and Biomedical Analysis, 83:122-128 (2013).

Maciej J. Bogusz, Huda Hassan, Eid Al-Enazi, Zuhour Ibrahim, Mohammed Al-Tufail, "Application of LC-ESI-MS-MS for detection of synthetic adulterants in herbal remedies," Journal of Pharmaceutical and Biomedical Analysis, 41: 554-564 (2006).

Water Soluble Vitamins by LC-MS/MS (BLCMS_S)

Covance Laboratories - Harrogate

Covance Developed Method

Yohimbe (YOHIMBE_S)

Analytical laboratories in Anaheim, Inc.

Testing Location(s)

Released on Behalf of Covance by

Covance Laboratories - Harrogate

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Andrew Hockin - Director



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