

Certificate of Analysis

Stacker2 Europe BV

 Geerweg 2
 Sittard 6135KC Netherlands

Sample Name:	Stacker 4 ST46230	Covance Sample:	6209056
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	0.7295 g
Entity Weight	0.6979 g
Entity Fill Weight	0.6027 g
Yohimbe *	
Yohimbe	Not Detected
Elements by ICP Mass Spectrometry	
Cadmium	0.0484 mcg/Serving Size
Lead	0.0301 mcg/Serving Size
Mercury	<0.00730 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	<60.3 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.21 mcg/Serving Size
2-Phenylethylamine	<60.3 mcg/Serving Size
Aegeline	<12.1 mcg/Serving Size
Amphetamine	<0.603 mcg/Serving Size
Benfluorex	<6.03 mcg/Serving Size
Benzphetamine	<0.603 mcg/Serving Size
Benzyl Sibutramine	<0.603 mcg/Serving Size
Bisacodyl	<0.603 mcg/Serving Size
Bumetanide	<6.03 mcg/Serving Size
Bupropion	<0.603 mcg/Serving Size
Cetilistat	<60.3 mcg/Serving Size
Chloro-Sibutramine	<1.21 mcg/Serving Size

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Analysis
Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *

Dapoxetine	<6.03 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.603 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.603 mcg/Serving Size
Ephedrine, methylpseudo-	<0.603 mcg/Serving Size
Ephedrine, methyl-	<0.603 mcg/Serving Size
Ephedrine, nor-	<0.603 mcg/Serving Size
Ephedrine, norpseudo-	<0.603 mcg/Serving Size
Ephedrine, pseudo-	<0.603 mcg/Serving Size
Fenfluramine	<0.603 mcg/Serving Size
Fenproporex	<0.603 mcg/Serving Size
Fluoxetine	<6.03 mcg/Serving Size
Furosemide	<60.3 mcg/Serving Size
Glybenclamide	<6.03 mcg/Serving Size
Homosibutramine	<1.21 mcg/Serving Size
Hordenine	<3.01 mcg/Serving Size
Lorcaserin	<6.03 mcg/Serving Size
Metformin	<6.03 mcg/Serving Size
Methylphenethylamine, beta	<0.603 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.603 mcg/Serving Size
N-Desmethyl sertraline	<6.03 mcg/Serving Size
N-Desmethyl sibutramine	<0.603 mcg/Serving Size
N-Didesmethyl sibutramine	<1.21 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.603 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.21 mcg/Serving Size
NIDA-41020	<1.21 mcg/Serving Size
N-Methyltryptamine	<1.21 mcg/Serving Size
N-Methyltyramine	<0.603 mcg/Serving Size
Octopamine	<603 mcg/Serving Size
Orlistat	<6.03 mcg/Serving Size
Paroxetine	<1.21 mcg/Serving Size
Phendimetrazine	<0.603 mcg/Serving Size
Phenolphthalein	<6.03 mcg/Serving Size
Phentermine	<1.21 mcg/Serving Size
Phenytol	<60.3 mcg/Serving Size
Picamilon	<6.03 mcg/Serving Size
Propranolol	<3.01 mcg/Serving Size

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Rimonabant	<1.21 mcg/Serving Size
Sertraline	<0.603 mcg/Serving Size
Sibutramine	<0.603 mcg/Serving Size
Synephrine	<6.03 mcg/Serving Size
Theobromine	510 mcg/Serving Size
Theophylline	102 mcg/Serving Size
Topiramate	<12.1 mcg/Serving Size
Tyramine	24.2 mcg/Serving Size
Polycyclic Aromatic Hydrocarbons-Low Level *	
Benz(a)anthracene	0.00314 mcg/Serving Size
Benzo(a)pyrene	0.00143 mcg/Serving Size
Benzo(b)fluoranthene	0.00210 mcg/Serving Size
Benzo(g,h,i)perylene	0.00147 mcg/Serving Size
Benzo(k)fluoranthene	0.00184 mcg/Serving Size
Chrysene	0.00492 mcg/Serving Size
Dibenz(a,h)anthracene	0.000188 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	0.00147 mcg/Serving Size
Pyrene	0.00961 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).	
Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)	Covance Laboratories - Madison
Covance Inc. developed method	

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Sittard 6135KC Netherlands

Method References

Testing Location

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).

Yohimbe (YOHIMBE_S)

Analytical laboratories in Anaheim, Inc.

Testing Location(s)

Released on Behalf of Covance by

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Andrew Hockin - Director



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