

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 4	Covance Sample:	6861581
Project ID	STACKER2-20180102-0001	Receipt Date	02-Jan-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	ST46231	Login Date	02-Jan-2018
Sample Serving Size	1 Cap	Online Order	20

Analysis	Result
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Calculated Sample Weight *

Entity Weight	0.6889 g
Entity Fill Weight	0.6889 g
Entity Weight	0.6851 g
Entity Fill Weight	0.5913 g

Yohimbe *

Yohimbine	<100 ppm
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Elements by ICP Mass Spectrometry

Cadmium	0.0341 mcg/Serving Size
Lead	0.0369 mcg/Serving Size
Mercury	<0.00689 mcg/Serving Size

Mycotoxins in Raw Materials

Aflatoxin B1	<0.500 ng/g
Aflatoxin B2	<0.500 ng/g
Aflatoxin G1	<0.500 ng/g
Aflatoxin G2	<0.500 ng/g
Aflatoxin M1	1.01 ng/g
Aflatoxin M2	<0.500 ng/g
Deoxynivalenol	<100 ng/g
T-2 Toxin	<10.0 ng/g
HT-2 Toxin	<100 ng/g
Fumonisin B1	<25.0 ng/g
Fumonisin B2	<25.0 ng/g
Ochratoxin A	<1.00 ng/g
Zearalenone	<30.0 ng/g

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

1-Phenylethylamine	<59.1 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.18 mcg/Serving Size
2-Phenylethylamine	<59.1 mcg/Serving Size
Aegeline	<11.8 mcg/Serving Size
Amphetamine	<0.591 mcg/Serving Size
Benfluorex	<5.91 mcg/Serving Size
Benzphetamine	<0.591 mcg/Serving Size
Benzyl Sibutramine	<0.591 mcg/Serving Size
Bisacodyl	<0.591 mcg/Serving Size
Bumetanide	<5.91 mcg/Serving Size
Bupropion	<0.591 mcg/Serving Size
Cetilistat	<59.1 mcg/Serving Size

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Chloro-Sibutramine	<1.18 mcg/Serving Size
Dapoxetine	<5.91 mcg/Serving Size
Diclofenac	<5.91 mcg/Serving Size
Diethylpropion (Amfepramone)	<0.591 mcg/Serving Size
Emodin	<2.96 mcg/Serving Size
Ephedrine	<0.591 mcg/Serving Size
Ephedrine, methylpseudo-	<0.591 mcg/Serving Size
Ephedrine, methyl-	<0.591 mcg/Serving Size
Ephedrine, nor-	<0.591 mcg/Serving Size
Ephedrine, norpseudo-	<0.591 mcg/Serving Size
Ephedrine, pseudo-	<0.591 mcg/Serving Size
Fenfluramine	<0.591 mcg/Serving Size
Fenproporex	<0.591 mcg/Serving Size
Fluoxetine	<5.91 mcg/Serving Size
Furosemide	<59.1 mcg/Serving Size
Glybenclamide	<5.91 mcg/Serving Size
Homosibutramine	<1.18 mcg/Serving Size
Hordenine	<2.96 mcg/Serving Size
Lorcaserin	<5.91 mcg/Serving Size
Metformin	<5.91 mcg/Serving Size
Methylphenethylamine, beta	<0.591 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.591 mcg/Serving Size
N-Desmethyl sertraline	<5.91 mcg/Serving Size
N-Desmethyl sibutramine	<0.591 mcg/Serving Size
N-Didesmethyl sibutramine	<1.18 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.591 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.18 mcg/Serving Size
NIDA-41020	<1.18 mcg/Serving Size
N-Methyltryptamine	<1.18 mcg/Serving Size
N-Methyltyramine	<0.591 mcg/Serving Size
Octopamine	<591 mcg/Serving Size
Orlistat	<5.91 mcg/Serving Size
Paroxetine	<1.18 mcg/Serving Size
Phendimetrazine	<0.591 mcg/Serving Size
Phenolphthalein	<5.91 mcg/Serving Size
Phentermine	<1.18 mcg/Serving Size
Phenytoin	<59.1 mcg/Serving Size
Picamilon	<5.91 mcg/Serving Size

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Propranolol	<2.96 mcg/Serving Size
Rimonabant	<1.18 mcg/Serving Size
Sertraline	<0.591 mcg/Serving Size
Sibutramine	<0.591 mcg/Serving Size
Synephrine	<5.91 mcg/Serving Size
Theobromine	638 mcg/Serving Size
Theophylline	53.9 mcg/Serving Size
Topiramate	<11.8 mcg/Serving Size
Tyramine	13.4 mcg/Serving Size
Polycyclic Aromatic Hydrocarbons-Low Level	
Benz(a)anthracene	0.00223 mcg/Serving Size
Benzo(a)pyrene	0.00172 mcg/Serving Size
Benzo(b)fluoranthene	0.00194 mcg/Serving Size
Benzo(g,h,i)perylene	0.00180 mcg/Serving Size
Benzo(k)fluoranthene	0.00206 mcg/Serving Size
Chrysene	0.00376 mcg/Serving Size
Dibenz(a,h)anthracene	0.000156 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	0.00144 mcg/Serving Size
Pyrene	0.0109 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). Pequette, 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 - 1242 (2011).	
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).

Yohimbe (YOHIMBE_S)**Covance Laboratories - Anaheim**

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Testing Location(s)

Released on Behalf of Covance by

Covance Laboratories - Anaheim

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