

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 3 XPLC	Covance Sample:	6861580
Project ID	STACKER2-20180102-0001	Receipt Date	02-Jan-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	STXP3L48	Login Date	02-Jan-2018
Sample Serving Size	1 Cap	Online Order	20

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.6770 g
Entity Fill Weight	0.6770 g
Entity Weight	0.6754 g
Entity Fill Weight	0.5828 g
Yohimbe *	
Yohimbine	<100 ppm
Elements by ICP Mass Spectrometry	
Cadmium	0.0351 mcg/Serving Size
Lead	0.0348 mcg/Serving Size
Mercury	<0.00677 mcg/Serving Size
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
1-Phenylethylamine	<58.3 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.17 mcg/Serving Size
2-Phenylethylamine	<58.3 mcg/Serving Size
Aegeline	<11.7 mcg/Serving Size
Amphetamine	<0.583 mcg/Serving Size
Benfluorex	<5.83 mcg/Serving Size
Benzphetamine	<0.583 mcg/Serving Size
Benzyl Sibutramine	<0.583 mcg/Serving Size
Bisacodyl	<0.583 mcg/Serving Size
Bumetanide	<5.83 mcg/Serving Size
Bupropion	<0.583 mcg/Serving Size
Cetilistat	<58.3 mcg/Serving Size
Chloro-Sibutramine	<1.17 mcg/Serving Size
Dapoxetine	<5.83 mcg/Serving Size
Diclofenac	<5.83 mcg/Serving Size
Diethylpropion (Amfepramone)	<0.583 mcg/Serving Size
Emodin	<2.91 mcg/Serving Size
Ephedrine	<0.583 mcg/Serving Size
Ephedrine, methylpseudo-	<0.583 mcg/Serving Size
Ephedrine, methyl-	<0.583 mcg/Serving Size
Ephedrine, nor-	<0.583 mcg/Serving Size
Ephedrine, norpseudo-	<0.583 mcg/Serving Size
Ephedrine, pseudo-	<0.583 mcg/Serving Size
Fenfluramine	<0.583 mcg/Serving Size
Fenproporex	<0.583 mcg/Serving Size
Fluoxetine	<5.83 mcg/Serving Size

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

Furosemide	<58.3 mcg/Serving Size
Glybenclamide	<5.83 mcg/Serving Size
Homosibutramine	<1.17 mcg/Serving Size
Hordenine	<2.91 mcg/Serving Size
Lorcaserin	<5.83 mcg/Serving Size
Metformin	<5.83 mcg/Serving Size
Methylphenethylamine, beta	<0.583 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.583 mcg/Serving Size
N-Desmethyl sertraline	<5.83 mcg/Serving Size
N-Desmethyl sibutramine	<0.583 mcg/Serving Size
N-Didesmethyl sibutramine	<1.17 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.583 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.17 mcg/Serving Size
NIDA-41020	<1.17 mcg/Serving Size
N-Methyltryptamine	<1.17 mcg/Serving Size
N-Methyltyramine	<0.583 mcg/Serving Size
Octopamine	<583 mcg/Serving Size
Orlistat	<5.83 mcg/Serving Size
Paroxetine	<1.17 mcg/Serving Size
Phendimetrazine	<0.583 mcg/Serving Size
Phenolphthalein	<5.83 mcg/Serving Size
Phentermine	<1.17 mcg/Serving Size
Phenytoin	<58.3 mcg/Serving Size
Picamilon	<5.83 mcg/Serving Size
Propranolol	<2.91 mcg/Serving Size
Rimonabant	<1.17 mcg/Serving Size
Sertraline	<0.583 mcg/Serving Size
Sibutramine	<0.583 mcg/Serving Size
Synephrine	<5.83 mcg/Serving Size
Theobromine	636 mcg/Serving Size
Theophylline	56.4 mcg/Serving Size
Topiramate	<11.7 mcg/Serving Size
Tyramine	16.3 mcg/Serving Size

Polycyclic Aromatic Hydrocarbons-Low Level

Benz(a)anthracene	0.00230 mcg/Serving Size
Benzo(a)pyrene	0.00170 mcg/Serving Size
Benzo(b)fluoranthene	0.00226 mcg/Serving Size
Benzo(g,h,i)perylene	0.00204 mcg/Serving Size

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Analysis	Result
Polycyclic Aromatic Hydrocarbons-Low Level	
Benzo(k)fluoranthene	0.00204 mcg/Serving Size
Chrysene	0.00393 mcg/Serving Size
Dibenz(a,h)anthracene	0.000224 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	0.00170 mcg/Serving Size
Pyrene	0.0142 mcg/Serving Size

Method References	Testing Location
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Calculated Sample Weight (PREP)	Covance Laboratories - Madison
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Calculated Sample Weight (PREP_HAR)	Covance Laboratories - Harrogate
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Elements by ICP Mass Spectrometry (ICP_MS_S)	Covance Laboratories - Harrogate
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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).

Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)	Covance Laboratories - Madison
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Covance Inc. developed method

Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)	Covance Laboratories - Madison
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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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Sittard 6135KC Netherlands

Testing Location(s)

Released on Behalf of Covance by

Covance Laboratories - Anaheim

Covance Laboratories Inc.
2951 Saturn Street
Unit C
Brea California 92821
714-524-9988

Richard Sanders - Manager

Covance Laboratories - Harrogate

Covance Laboratories Limited
Otley Road
Harrogate North Yorkshire, United Kingdom HG3 1PY
+4401423 500011

Andrew Hockin - Director



Covance Laboratories - Madison

Covance Laboratories Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375

Edward Ladwig - Director



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