

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 2 Ephedra Free ST2EF3760	Covance Sample:	6209054
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	0.6094 g
Entity Weight	0.6128 g
Entity Fill Weight	0.5153 g
Yohimbe *	
Yohimbe	Not Detected
Elements by ICP Mass Spectrometry	
Cadmium	0.109 mcg/Serving Size
Lead	0.0608 mcg/Serving Size
Mercury	<0.00609 mcg/Serving Size
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
1-Phenylethylamine	<51.5 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.03 mcg/Serving Size
2-Phenylethylamine	<51.5 mcg/Serving Size
Aegeline	<10.3 mcg/Serving Size
Amphetamine	<0.515 mcg/Serving Size
Benfluorex	<5.15 mcg/Serving Size
Benzphetamine	<0.515 mcg/Serving Size
Benzyl Sibutramine	<0.515 mcg/Serving Size
Bisacodyl	<0.515 mcg/Serving Size
Bumetanide	<5.15 mcg/Serving Size
Bupropion	<0.515 mcg/Serving Size
Cetilistat	<51.5 mcg/Serving Size
Chloro-Sibutramine	<1.03 mcg/Serving Size
Dapoxetine	<5.15 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.515 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.515 mcg/Serving Size
Ephedrine, methylpseudo-	<0.515 mcg/Serving Size
Ephedrine, methyl-	<0.515 mcg/Serving Size
Ephedrine, nor-	<0.515 mcg/Serving Size
Ephedrine, norpseudo-	<0.515 mcg/Serving Size
Ephedrine, pseudo-	<0.515 mcg/Serving Size
Fenfluramine	<0.515 mcg/Serving Size
Fenproporex	<0.515 mcg/Serving Size
Fluoxetine	<5.15 mcg/Serving Size
Furosemide	<51.5 mcg/Serving Size
Glybenclamide	<5.15 mcg/Serving Size

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

Homosibutramine	<1.03 mcg/Serving Size
Hordenine	<2.58 mcg/Serving Size
Lorcaserin	<5.15 mcg/Serving Size
Metformin	<5.15 mcg/Serving Size
Methylphenethylamine, beta	<0.515 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.515 mcg/Serving Size
N-Desmethyl sertraline	<5.15 mcg/Serving Size
N-Desmethyl sibutramine	<0.515 mcg/Serving Size
N-Didesmethyl sibutramine	<1.03 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.515 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.03 mcg/Serving Size
NIDA-41020	<1.03 mcg/Serving Size
N-Methyltryptamine	<1.03 mcg/Serving Size
N-Methyltyramine	<0.515 mcg/Serving Size
Octopamine	<515 mcg/Serving Size
Orlistat	<5.15 mcg/Serving Size
Paroxetine	<1.03 mcg/Serving Size
Phendimetrazine	<0.515 mcg/Serving Size
Phenolphthalein	<5.15 mcg/Serving Size
Phentermine	<1.03 mcg/Serving Size
Phenytoin	<51.5 mcg/Serving Size
Picamilon	<5.15 mcg/Serving Size
Propranolol	<2.58 mcg/Serving Size
Rimonabant	<1.03 mcg/Serving Size
Sertraline	<0.515 mcg/Serving Size
Sibutramine	<0.515 mcg/Serving Size
Synephrine	<5.15 mcg/Serving Size
Theobromine	742 mcg/Serving Size
Theophylline	94.1 mcg/Serving Size
Topiramate	<10.3 mcg/Serving Size
Tyramine	19.5 mcg/Serving Size

Polycyclic Aromatic Hydrocarbons-Low Level *

Benz(a)anthracene	0.00927 mcg/Serving Size
Benzo(a)pyrene	0.00505 mcg/Serving Size
Benzo(b)fluoranthene	0.00436 mcg/Serving Size
Benzo(g,h,i)perylene	0.00383 mcg/Serving Size
Benzo(k)fluoranthene	0.00603 mcg/Serving Size
Chrysene	>0.0103 mcg/Serving Size

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Analysis	Result
Polycyclic Aromatic Hydrocarbons-Low Level *	
Dibenz(a,h)anthracene	0.000791 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	0.00341 mcg/Serving Size
Pyrene	>0.0103 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).	
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. Gryniwicz-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.

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Testing Location(s)

Released on Behalf of Covance by

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Andrew Hockin - Director



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