

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	7-Phenyl Stack	Covance Sample:	7381680
Project ID	STACKER2-20180611-0002	Receipt Date	11-Jun-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	ST7 16229	Login Date	11-Jun-2018
Sample Serving Size	1 Cap	Online Order	30

Analysis	Result
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Calculated Sample Weight *

Entity Weight	0.6853 g
Entity Weight	0.6955 g
Entity Fill Weight	0.6439 g
Entity Weight	0.6904 g
Entity Fill Weight	0.5979 g

Yohimbine *

Yohimbine	<100 mcg/g
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Elements by ICP Mass Spectrometry

Cadmium	6.18 ppb
Lead	40.9 ppb
Mercury	<5.00 ppb

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

1-Phenylethylamine	<100 mcg/g
2-Methylamino-1-phenylbutane	<2 mcg/g
2-Phenylethylamine	<100 mcg/g
Aegeline	<20 mcg/g
Amphetamine	<1 mcg/g
Benfluorex	<10 mcg/g
Benzphetamine	<1 mcg/g
Benzyl Sibutramine	<1 mcg/g
Bisacodyl	<1 mcg/g
Bumetanide	<10.0 mcg/g
Bupropion	<1 mcg/g
Cetilistat	<100 mcg/g
Chloro-Sibutramine	<2 mcg/g
Dapoxetine	<10 mcg/g
Diclofenac	<1000 mcg/100g
Diethylpropion (Amfepramone)	<1 mcg/g
Emodin	<500 mcg/100g
Ephedrine	<1 mcg/g
Ephedrine, methylpseudo-	<1 mcg/g
Ephedrine, methyl-	<1 mcg/g
Ephedrine, nor-	<1 mcg/g
Ephedrine, norpseudo-	<1 mcg/g
Ephedrine, pseudo-	<1 mcg/g
Fenfluramine	<1 mcg/g
Fenproporex	<1 mcg/g

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

Fluoxetine	<10 mcg/g
Furosemide	<100 mcg/g
Glybenclamide	<10 mcg/g
Homosibutramine	<2 mcg/g
Hordenine	<5 mcg/g
Lorcaserin	<10 mcg/g
Metformin	<10 mcg/g
Methylphenethylamine, beta	<1 mcg/g
N,N-Dimethylphenylethylamine	<1.00 mcg/g
N-Desmethyl sertraline	<10 mcg/g
N-Desmethyl sibutramine	<1 mcg/g
N-Didesmethyl sibutramine	<2 mcg/g
N,alpha-Diethylphenethylamine	<1 mcg/g
N-Formyl N,N-Didesmethyl Sibutramine	<2 mcg/g
NIDA-41020	<2 mcg/g
N-Methyltryptamine	<2 mcg/g
N-Methyltyramine	<1 mcg/g
Octopamine	<1000 mcg/g
Orlistat	<10 mcg/g
Paroxetine	<2 mcg/g
Phendimetrazine	<1 mcg/g
Phenolphthalein	<10 mcg/g
Phentermine	<2 mcg/g
Phenytoin	<100 mcg/g
Picamilon	<10 mcg/g
Propranolol	<5 mcg/g
Rimonabant	<2 mcg/g
Sertraline	<1 mcg/g
Sibutramine	<1 mcg/g
Synephrine	<10 mcg/g
Theobromine	138 mcg/g
Theophylline	64 mcg/g
Topiramate	<20 mcg/g
Tyramine	<20 mcg/g
Polycyclic Aromatic Hydrocarbons-Low Level	
Benz(a)anthracene	<0.250 ppb
Benzo(a)pyrene	<0.250 ppb

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Analysis	Result
Polycyclic Aromatic Hydrocarbons-Low Level	
Benzo(b)fluoranthene	<0.250 ppb
Chrysene	<0.250 ppb
Sum of PAH4 analytes	<1.00 ppb

Method References	Testing Location
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Calculated Sample Weight (PREP)	Covance Laboratories - Madison
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Calculated Sample Weight (PREP_BREA)	Covance Laboratories - Brea
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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 - 1252 (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. 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).

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Method References**Testing Location**

Yohimbine (MISC_OC)

Covance Laboratories - Brea

Covance Developed Method

Testing Location(s)**Released on Behalf of Covance by****Covance Laboratories - Brea**

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