

## Certificate of Analysis

### Stacker2 Europe BV

 Geerweg 2  
 Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>7-Phenylstack (EURO 1726)</b>	<b>Covance Sample:</b>	<b>6209057</b>
<b>Project ID</b>	STACKER2-20170606-0001	<b>Receipt Date</b>	06-Jun-2017
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>	1 Cap	<b>Login Date</b>	06-Jun-2017
		<b>Online Order</b>	30

Analysis	Result
<b>Calculated Sample Weight *</b>	
Entity Weight	0.6481 g
Entity Weight	0.6678 g
Entity Fill Weight	0.5701 g
<b>Yohimbe *</b>	
Yohimbe	Not Detected
<b>Elements by ICP Mass Spectrometry</b>	
Cadmium	<0.00648 mcg/Serving Size
Lead	0.0271 mcg/Serving Size
Mercury	<0.00648 mcg/Serving Size
<b>Mycotoxins in Raw Materials</b>	
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
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements *</b>	
1-Phenylethylamine	<57.0 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.14 mcg/Serving Size
2-Phenylethylamine	<57.0 mcg/Serving Size
Aegeline	<11.4 mcg/Serving Size
Amphetamine	<0.570 mcg/Serving Size
Benfluorex	<5.70 mcg/Serving Size
Benzphetamine	<0.570 mcg/Serving Size
Benzyl Sibutramine	<0.570 mcg/Serving Size
Bisacodyl	<0.570 mcg/Serving Size
Bumetanide	<5.70 mcg/Serving Size
Bupropion	<0.570 mcg/Serving Size
Cetilistat	<57.0 mcg/Serving Size
Chloro-Sibutramine	<1.14 mcg/Serving Size

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Analysis	Result
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements *</b>	
Dapoxetine	<5.70 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.570 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.570 mcg/Serving Size
Ephedrine, methylpseudo-	<0.570 mcg/Serving Size
Ephedrine, methyl-	<0.570 mcg/Serving Size
Ephedrine, nor-	<0.570 mcg/Serving Size
Ephedrine, norpseudo-	<0.570 mcg/Serving Size
Ephedrine, pseudo-	<0.570 mcg/Serving Size
Fenfluramine	<0.570 mcg/Serving Size
Fenproporex	<0.570 mcg/Serving Size
Fluoxetine	<5.70 mcg/Serving Size
Furosemide	<57.0 mcg/Serving Size
Glybenclamide	<5.70 mcg/Serving Size
Homosibutramine	<1.14 mcg/Serving Size
Hordenine	<2.85 mcg/Serving Size
Lorcaserin	<5.70 mcg/Serving Size
Metformin	<5.70 mcg/Serving Size
Methylphenethylamine, beta	<0.570 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.570 mcg/Serving Size
N-Desmethyl sertraline	<5.70 mcg/Serving Size
N-Desmethyl sibutramine	<0.570 mcg/Serving Size
N-Didesmethyl sibutramine	<1.14 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.570 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.14 mcg/Serving Size
NIDA-41020	<1.14 mcg/Serving Size
N-Methyltryptamine	<1.14 mcg/Serving Size
N-Methyltyramine	<0.570 mcg/Serving Size
Octopamine	<570 mcg/Serving Size
Orlistat	<5.70 mcg/Serving Size
Paroxetine	<1.14 mcg/Serving Size
Phendimetrazine	<0.570 mcg/Serving Size
Phenolphthalein	<5.70 mcg/Serving Size
Phentermine	<1.14 mcg/Serving Size
Phenytion	<57.0 mcg/Serving Size
Picamilon	<5.70 mcg/Serving Size
Propranolol	<2.85 mcg/Serving Size

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Analysis	Result
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements *</b>	
Rimonabant	<1.14 mcg/Serving Size
Sertraline	<0.570 mcg/Serving Size
Sibutramine	<0.570 mcg/Serving Size
Synephrine	<5.70 mcg/Serving Size
Theobromine	53.4 mcg/Serving Size
Theophylline	55.9 mcg/Serving Size
Topiramate	<11.4 mcg/Serving Size
Tyramine	<11.4 mcg/Serving Size
<b>Polycyclic Aromatic Hydrocarbons-Low Level *</b>	
Benz(a)anthracene	<0.000143 mcg/Serving Size
Benzo(a)pyrene	<0.000143 mcg/Serving Size
Benzo(b)fluoranthene	<0.000143 mcg/Serving Size
Benzo(g,h,i)perylene	<0.000143 mcg/Serving Size
Benzo(k)fluoranthene	<0.000143 mcg/Serving Size
Chrysene	<0.000143 mcg/Serving Size
Dibenz(a,h)anthracene	<0.000143 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	<0.000143 mcg/Serving Size
Pyrene	0.000170 mcg/Serving Size

Method References	Testing Location
<b>Calculated Sample Weight (PREP)</b>	<b>Covance Laboratories - Madison</b>
<b>Calculated Sample Weight (PREP_HAR)</b>	<b>Covance Laboratories - Harrogate</b>
<b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b>	<b>Covance Laboratories - Harrogate</b>
Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).	
<b>Mycotoxins in Raw Materials (MYCO_REG_S)</b>	<b>Covance Laboratories - Harrogate</b>
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).	
<b>Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)</b>	<b>Covance Laboratories - Madison</b>
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

#### Covance Laboratories - Harrogate

Covance Laboratories Limited  
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Andrew Hockin - Director



#### Covance Laboratories - Madison

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3301 Kinsman Blvd  
Madison WI 53704  
800-675-8375

Edward Ladwig - Director

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