

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>Stacker 2 Ephedra Free</b>	<b>Covance Sample:</b>	<b>6861579</b>
<b>Project ID</b>	STACKER2-20180102-0001	<b>Receipt Date</b>	02-Jan-2018
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	ST2EF3760	<b>Login Date</b>	02-Jan-2018
<b>Sample Serving Size</b>	1 Cap	<b>Online Order</b>	20

**Analysis**
**Result**
**Calculated Sample Weight \***

Entity Weight	0.6056 g
Entity Fill Weight	0.6056 g
Entity Weight	0.6024 g
Entity Fill Weight	0.5114 g

**Yohimbe \***

Yohimbine	<100 ppm
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**Elements by ICP Mass Spectrometry**

Cadmium	0.159 mcg/Serving Size
Lead	0.0721 mcg/Serving Size
Mercury	<0.00606 mcg/Serving Size

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

1-Phenylethylamine	<51.1 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.02 mcg/Serving Size
2-Phenylethylamine	<51.1 mcg/Serving Size
Aegeline	<10.2 mcg/Serving Size
Amphetamine	<0.511 mcg/Serving Size
Benfluorex	<5.11 mcg/Serving Size
Benzphetamine	<0.511 mcg/Serving Size
Benzyl Sibutramine	<0.511 mcg/Serving Size
Bisacodyl	<0.511 mcg/Serving Size
Bumetanide	<5.11 mcg/Serving Size
Bupropion	<0.511 mcg/Serving Size
Cetilistat	<51.1 mcg/Serving Size
Chloro-Sibutramine	<1.02 mcg/Serving Size
Dapoxetine	<5.11 mcg/Serving Size
Diclofenac	<5.11 mcg/Serving Size
Diethylpropion (Amfepramone)	<0.511 mcg/Serving Size
Emodin	<2.56 mcg/Serving Size
Ephedrine	<0.511 mcg/Serving Size
Ephedrine, methylpseudo-	<0.511 mcg/Serving Size
Ephedrine, methyl-	<0.511 mcg/Serving Size
Ephedrine, nor-	<0.511 mcg/Serving Size
Ephedrine, norpseudo-	<0.511 mcg/Serving Size
Ephedrine, pseudo-	<0.511 mcg/Serving Size
Fenfluramine	<0.511 mcg/Serving Size
Fenproporex	<0.511 mcg/Serving Size
Fluoxetine	<5.11 mcg/Serving Size

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

Furosemide	<51.1 mcg/Serving Size
Glybenclamide	<5.11 mcg/Serving Size
Homosibutramine	<1.02 mcg/Serving Size
Hordenine	<2.56 mcg/Serving Size
Lorcaserin	<5.11 mcg/Serving Size
Metformin	<5.11 mcg/Serving Size
Methylphenethylamine, beta	<0.511 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.511 mcg/Serving Size
N-Desmethyl sertraline	<5.11 mcg/Serving Size
N-Desmethyl sibutramine	<0.511 mcg/Serving Size
N-Didesmethyl sibutramine	<1.02 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.511 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.02 mcg/Serving Size
NIDA-41020	<1.02 mcg/Serving Size
N-Methyltryptamine	<1.02 mcg/Serving Size
N-Methyltyramine	<0.511 mcg/Serving Size
Octopamine	<511 mcg/Serving Size
Orlistat	<5.11 mcg/Serving Size
Paroxetine	<1.02 mcg/Serving Size
Phendimetrazine	<0.511 mcg/Serving Size
Phenolphthalein	<5.11 mcg/Serving Size
Phentermine	<1.02 mcg/Serving Size
Phenytoin	<51.1 mcg/Serving Size
Picamilon	<5.11 mcg/Serving Size
Propranolol	<2.56 mcg/Serving Size
Rimonabant	<1.02 mcg/Serving Size
Sertraline	<0.511 mcg/Serving Size
Sibutramine	<0.511 mcg/Serving Size
Synephrine	<5.11 mcg/Serving Size
Theobromine	657 mcg/Serving Size
Theophylline	60.9 mcg/Serving Size
Topiramate	<10.2 mcg/Serving Size
Tyramine	12.9 mcg/Serving Size

**Polycyclic Aromatic Hydrocarbons-Low Level**

Benz(a)anthracene	0.0105 mcg/Serving Size
Benzo(a)pyrene	0.00689 mcg/Serving Size
Benzo(b)fluoranthene	0.00828 mcg/Serving Size
Benzo(g,h,i)perylene	0.00686 mcg/Serving Size

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Analysis	Result
<b>Polycyclic Aromatic Hydrocarbons-Low Level</b>	
Benzo(k)fluoranthene	0.00741 mcg/Serving Size
Chrysene	0.0184 mcg/Serving Size
Dibenz(a,h)anthracene	0.000830 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	0.00535 mcg/Serving Size
Pyrene	>0.0256 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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#### 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  
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Andrew Hockin - Director



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##### Covance Laboratories - Madison

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

Edward Ladwig - Director



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