

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>7-Phenylstack</b>	<b>Covance Sample:</b>	<b>6861582</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>	ST7P36323	<b>Login Date</b>	02-Jan-2018
<b>Sample Serving Size</b>	1 Cap	<b>Online Order</b>	20

Analysis	Result
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**Calculated Sample Weight \***

Entity Weight	0.6445 g
Entity Fill Weight	0.6445 g
Entity Weight	0.6794 g
Entity Fill Weight	0.5844 g
Entity Weight	0.6805 g
Entity Fill Weight	0.5834 g

**Yohimbe \***

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

Cadmium	<0.00645 mcg/Serving Size
Lead	0.0244 mcg/Serving Size
Mercury	<0.00645 mcg/Serving Size

**Mycotoxins in Raw Materials**

Aflatoxin B1	<0.500 ng/g
Aflatoxin B2	<0.500 ng/g
Aflatoxin G1	<0.500 ng/g
Aflatoxin G2	<0.500 ng/g
Aflatoxin M1	<0.500 ng/g
Aflatoxin M2	<0.500 ng/g
Deoxynivalenol	<100 ng/g
T-2 Toxin	<10.0 ng/g
HT-2 Toxin	<100 ng/g
Fumonisin B1	<25.0 ng/g
Fumonisin B2	<25.0 ng/g
Ochratoxin A	<1.00 ng/g
Zearalenone	<30.0 ng/g

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

1-Phenylethylamine	<58.4 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.17 mcg/Serving Size
2-Phenylethylamine	<58.4 mcg/Serving Size

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

Aegeline	<11.7 mcg/Serving Size
Amphetamine	<0.584 mcg/Serving Size
Benfluorex	<5.84 mcg/Serving Size
Benzphetamine	<0.584 mcg/Serving Size
Benzyl Sibutramine	<0.584 mcg/Serving Size
Bisacodyl	<0.6 mcg/Serving Size
Bumetanide	<5.84 mcg/Serving Size
Bupropion	<0.6 mcg/Serving Size
Cetilistat	<58.4 mcg/Serving Size
Chloro-Sibutramine	<1.17 mcg/Serving Size
Dapoxetine	<5.84 mcg/Serving Size
Diclofenac	<5.84 mcg/Serving Size
Diethylpropion (Amfepramone)	<0.584 mcg/Serving Size
Emodin	<2.92 mcg/Serving Size
Ephedrine	<0.584 mcg/Serving Size
Ephedrine, methylpseudo-	<0.584 mcg/Serving Size
Ephedrine, methyl-	<0.584 mcg/Serving Size
Ephedrine, nor-	<0.584 mcg/Serving Size
Ephedrine, norpseudo-	<0.584 mcg/Serving Size
Ephedrine, pseudo-	<0.584 mcg/Serving Size
Fenfluramine	<0.584 mcg/Serving Size
Fenproporex	<0.584 mcg/Serving Size
Fluoxetine	<5.84 mcg/Serving Size
Furosemide	<58.4 mcg/Serving Size
Glybenclamide	<5.84 mcg/Serving Size
Homosibutramine	<1.17 mcg/Serving Size
Hordenine	<2.92 mcg/Serving Size
Lorcaserin	<5.84 mcg/Serving Size
Metformin	<5.84 mcg/Serving Size
Methylphenethylamine, beta	<0.584 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.584 mcg/Serving Size
N-Desmethyl sertraline	<5.84 mcg/Serving Size
N-Desmethyl sibutramine	<0.584 mcg/Serving Size
N-Didesmethyl sibutramine	<1.17 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.584 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.17 mcg/Serving Size
NIDA-41020	<1.17 mcg/Serving Size

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

N-Methyltryptamine	<1.17 mcg/Serving Size
N-Methyltyramine	<0.584 mcg/Serving Size
Octopamine	<584 mcg/Serving Size
Orlistat	<5.84 mcg/Serving Size
Paroxetine	<1.17 mcg/Serving Size
Phendimetrazine	<0.584 mcg/Serving Size
Phenolphthalein	<5.84 mcg/Serving Size
Phentermine	<1.17 mcg/Serving Size
Phenytoin	<58.4 mcg/Serving Size
Picamilon	<5.84 mcg/Serving Size
Propranolol	<2.92 mcg/Serving Size
Rimonabant	<1.17 mcg/Serving Size
Sertraline	<0.584 mcg/Serving Size
Sibutramine	<0.584 mcg/Serving Size
Synephrine	<5.84 mcg/Serving Size
Theobromine	94.4 mcg/Serving Size
Theophylline	28.6 mcg/Serving Size
Topiramate	<11.7 mcg/Serving Size
Tyramine	<11.7 mcg/Serving Size

**Polycyclic Aromatic Hydrocarbons-Low Level**

Benz(a)anthracene	<0.250 ppb
Benzo(a)pyrene	<0.250 ppb
Benzo(b)fluoranthene	<0.250 ppb
Benzo(g,h,i)perylene	<0.250 ppb
Benzo(k)fluoranthene	<0.250 ppb
Chrysene	<0.250 ppb
Dibenz(a,h)anthracene	<0.250 ppb
Indeno(1,2,3-c,d)pyrene	<0.250 ppb
Pyrene	<0.250 ppb

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

<b>Mycotoxins in Raw Materials (MYCO_REG_S)</b>	<b>Covance Laboratories - Harrogate</b>
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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>
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Covance Inc. developed method

<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)</b>	<b>Covance Laboratories - Madison</b>
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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. Venhuis, 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).

<b>Yohimbe (YOHIMBE_S)</b>	<b>Covance Laboratories - Anaheim</b>
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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  
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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