

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>Stacker 4</b>	<b>Covance Sample:</b>	<b>7381681</b>
<b>Project ID</b>	STACKER2-20180611-0002	<b>Receipt Date</b>	11-Jun-2018
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	181110	<b>Login Date</b>	11-Jun-2018
<b>Sample Serving Size</b>	1 Cap	<b>Online Order</b>	30

Analysis	Result
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**Calculated Sample Weight \***

Entity Weight	0.6890 g
Entity Fill Weight	0.5937 g
Entity Weight	0.6890 g
Entity Fill Weight	0.5937 g
Entity Weight	0.6926 g
Entity Fill Weight	0.6390 g
Entity Weight	0.6903 g
Entity Fill Weight	0.5952 g

**Yohimbine \***

Yohimbine	<100 mcg/g
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**Elements by ICP Mass Spectrometry**

Cadmium	52.0 ppb
Lead	50.7 ppb
Mercury	<5.00 ppb

**Mycotoxins in Raw Materials**

Aflatoxin B1	<0.500 ng/g
Aflatoxin B2	<0.500 ng/g
Aflatoxin G1	<0.500 ng/g
Aflatoxin G2	5.56 ng/g
Aflatoxin M1	<0.500 ng/g
Aflatoxin M2	<0.500 ng/g
Deoxynivalenol	1090 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	<10000 mcg/100g
2-Methylamino-1-phenylbutane	<200 mcg/100g
2-Phenylethylamine	<10000 mcg/100g
Aegeline	<2000 mcg/100g
Amphetamine	<100 mcg/100g
Benfluorex	<1000 mcg/100g
Benzphetamine	<100 mcg/100g

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

Benzyl Sibutramine	<100 mcg/100g
Bisacodyl	<100 mcg/100g
Bumetanide	<1000 mcg/100g
Bupropion	<100 mcg/100g
Cetilistat	<10000 mcg/100g
Chloro-Sibutramine	<200 mcg/100g
Dapoxetine	<1000 mcg/100g
Diclofenac	<1000 mcg/100g
Diethylpropion (Amfepramone)	<100 mcg/100g
Emodin	<500 mcg/100g
Ephedrine	<100 mcg/100g
Ephedrine, methylpseudo-	<100 mcg/100g
Ephedrine, methyl-	<100 mcg/100g
Ephedrine, nor-	<100 mcg/100g
Ephedrine, norpseudo-	<100 mcg/100g
Ephedrine, pseudo-	<100 mcg/100g
Fenfluramine	<100 mcg/100g
Fenproporex	<100 mcg/100g
Fluoxetine	<1000 mcg/100g
Furosemide	<10000 mcg/100g
Glybenclamide	<1000 mcg/100g
Homosibutramine	<200 mcg/100g
Hordenine	<500 mcg/100g
Lorcaserin	<1000 mcg/100g
Metformin	<1000 mcg/100g
Methylphenethylamine, beta	<100 mcg/100g
N,N-Dimethylphenylethylamine	<100 mcg/100g
N-Desmethyl sertraline	<1000 mcg/100g
N-Desmethyl sibutramine	<100 mcg/100g
N-Didesmethyl sibutramine	<200 mcg/100g
N,alpha-Diethylphenethylamine	<100 mcg/100g
N-Formyl N,N-Didesmethyl Sibutramine	<200 mcg/100g
NIDA-41020	<200 mcg/100g
N-Methyltryptamine	<200 mcg/100g
N-Methyltyramine	<100 mcg/100g
Octopamine	<100000 mcg/100g
Orlistat	<1000 mcg/100g

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

Paroxetine	<200 mcg/100g
Phendimetrazine	<100 mcg/100g
Phenolphthalein	<1000 mcg/100g
Phentermine	<200 mcg/100g
Phenytoin	<10000 mcg/100g
Picamilon	<1000 mcg/100g
Propranolol	<500 mcg/100g
Rimonabant	<200 mcg/100g
Sertraline	<100 mcg/100g
Sibutramine	<100 mcg/100g
Synephrine	<1000 mcg/100g
Theobromine	46700 mcg/100g
Theophylline	11600 mcg/100g
Topiramate	<2000 mcg/100g
Tyramine	3500 mcg/100g

**Polycyclic Aromatic Hydrocarbons-Low Level**

Benz(a)anthracene	4.83 ppb
Benzo(a)pyrene	4.08 ppb
Benzo(b)fluoranthene	6.16 ppb
Chrysene	7.93 ppb
Sum of PAH4 analytes	23.0 ppb

**Method References**
**Testing Location**

**Calculated Sample Weight (PREP)** **Covance Laboratories - Madison**

**Calculated Sample Weight (PREP\_BREA)** **Covance Laboratories - Brea**

**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).  
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).

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**Method References****Testing Location****Mycotoxins in Raw Materials (MYCO\_REG\_S)****Covance Laboratories - Harrogate**

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).

**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. 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).

**Yohimbine (MISC\_OC)****Covance Laboratories - Brea**

**Covance Developed Method**

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#### Testing Location(s)

Released on Behalf of Covance by

##### Covance Laboratories - Brea

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800-675-8375

Richard Sanders - Manager

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Andrew Hockin - Director



##### Covance Laboratories - Madison

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800-675-8375

Edward Ladwig - Director



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