

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	Thermodrene XT	<b>Covance Sample:</b>	6861583
<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>	1737	<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	0.5925 g
Entity Fill Weight	0.5925 g
Entity Weight	0.5925 g
Entity Fill Weight	0.4997 g
Entity Weight	0.5948 g
Entity Fill Weight	0.5027 g
Entity Weight	0.5957 g
Entity Fill Weight	0.5037 g

**Water Soluble Vitamins by LC-MS/MS**

Pyridoxine	7.07 mcg/Serving Size
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**Yohimbe \***

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

Cadmium	<0.00592 mcg/Serving Size
Lead	0.0170 mcg/Serving Size
Mercury	<0.00592 mcg/Serving Size

**Mycotoxins in Raw Materials**

Aflatoxin B1	<0.500 ng/g
Aflatoxin B2	<0.500 ng/g
Aflatoxin G1	0.619 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

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**Mycotoxins in Raw Materials**

Ochratoxin A	<1.00 ng/g
Zearalenone	<30.0 ng/g

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

1-Phenylethylamine	<50.3 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.01 mcg/Serving Size
2-Phenylethylamine	<50.3 mcg/Serving Size
Aegeline	<10.1 mcg/Serving Size
Amphetamine	<0.503 mcg/Serving Size
Benfluorex	<5.03 mcg/Serving Size
Benzphetamine	<0.503 mcg/Serving Size
Benzyl Sibutramine	<0.503 mcg/Serving Size
Bisacodyl	<0.503 mcg/Serving Size
Bumetanide	<5.03 mcg/Serving Size
Bupropion	<0.503 mcg/Serving Size
Cetilistat	<50.3 mcg/Serving Size
Chloro-Sibutramine	<1.01 mcg/Serving Size
Dapoxetine	<5.03 mcg/Serving Size
Diclofenac	<5.03 mcg/Serving Size
Diethylpropion (Amfepramone)	<0.503 mcg/Serving Size
Emodin	<2.51 mcg/Serving Size
Ephedrine	<0.503 mcg/Serving Size
Ephedrine, methylpseudo-	<0.503 mcg/Serving Size
Ephedrine, methyl-	<0.503 mcg/Serving Size
Ephedrine, nor-	<0.503 mcg/Serving Size
Ephedrine, norpseudo-	<0.503 mcg/Serving Size
Ephedrine, pseudo-	<0.503 mcg/Serving Size
Fenfluramine	<0.503 mcg/Serving Size
Fenproporex	<0.503 mcg/Serving Size
Fluoxetine	<5.03 mcg/Serving Size
Furosemide	<50.3 mcg/Serving Size
Glybenclamide	<5.03 mcg/Serving Size
Homosibutramine	<1.01 mcg/Serving Size
Hordenine	<2.51 mcg/Serving Size
Lorcaserin	<5.03 mcg/Serving Size
Metformin	<5.03 mcg/Serving Size
Methylphenethylamine, beta	<0.503 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.503 mcg/Serving Size

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

N-Desmethyl sertraline	<5.03 mcg/Serving Size
N-Desmethyl sibutramine	<0.503 mcg/Serving Size
N-Didesmethyl sibutramine	<1.01 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.503 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.01 mcg/Serving Size
NIDA-41020	<1.01 mcg/Serving Size
N-Methyltryptamine	<1.01 mcg/Serving Size
N-Methyltyramine	<0.503 mcg/Serving Size
Octopamine	<503 mcg/Serving Size
Orlistat	<5.03 mcg/Serving Size
Paroxetine	<1.01 mcg/Serving Size
Phendimetrazine	<0.503 mcg/Serving Size
Phenolphthalein	<5.03 mcg/Serving Size
Phentermine	<1.01 mcg/Serving Size
Phenytoin	<50.3 mcg/Serving Size
Picamilon	<5.03 mcg/Serving Size
Propranolol	<2.51 mcg/Serving Size
Rimonabant	<1.01 mcg/Serving Size
Sertraline	<0.503 mcg/Serving Size
Sibutramine	<0.503 mcg/Serving Size
Synephrine	<0.503 mcg/Serving Size
Theobromine	907 mcg/Serving Size
Theophylline	64.3 mcg/Serving Size
Topiramate	<10.1 mcg/Serving Size
Tyramine	11.2 mcg/Serving Size

**Polycyclic Aromatic Hydrocarbons-Low Level**

Benz(a)anthracene	0.441 ppb
Benzo(a)pyrene	0.268 ppb
Benzo(b)fluoranthene	0.457 ppb
Benzo(g,h,i)perylene	<0.250 ppb
Benzo(k)fluoranthene	0.251 ppb
Chrysene	0.703 ppb
Dibenz(a,h)anthracene	<0.250 ppb
Indeno(1,2,3-c,d)pyrene	<0.250 ppb
Pyrene	0.628 ppb

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<b>Analysis</b>	<b>Result</b>
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<b>Method References</b>	<b>Testing Location</b>
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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).

Mycotoxins in Raw Materials (MYCO_REG_S)	Covance Laboratories - Harrogate
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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).

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. 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).

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#### Method References

#### Testing Location

##### Water Soluble Vitamins by LC-MS/MS (BLCMS\_S)

Covance Laboratories - Harrogate

Covance Internal Method

Other supporting references:

Vitamin B12: AOAC 2011,10. Determination of Vitamin B12 in Infant Formula and Adult Nutritionals by HPLC (Vitamin B12 extraction)

##### Yohimbe (YOHIMBE\_S)

Covance Laboratories - Anaheim

#### Testing Location(s)

#### Released on Behalf of Covance by

##### Covance Laboratories - Anaheim

Richard Sanders - Manager

Covance Laboratories Inc.  
2951 Saturn Street  
Unit C  
Brea California 92821  
714-524-9988

##### 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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Page 5 of 5