

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 3 XPLC STXP3L46	Covance Sample:	6209055
Project ID	STACKER2-20170606-0001	Receipt Date	06-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size	1 Cap	Login Date	06-Jun-2017
		Online Order	30

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.6699 g
Entity Weight	0.6864 g
Entity Fill Weight	0.5923 g
Yohimbe *	
Yohimbe	Not Detected
Elements by ICP Mass Spectrometry	
Cadmium	0.0412 mcg/Serving Size
Lead	0.0281 mcg/Serving Size
Mercury	<0.00670 mcg/Serving Size
Mycotoxins in Raw Materials	
Aflatoxin B1	<0.300 mcg/kg
Aflatoxin B2	<0.300 mcg/kg
Aflatoxin G1	<0.300 mcg/kg
Aflatoxin G2	<0.300 mcg/kg
Aflatoxin M1	<0.300 mcg/kg
Aflatoxin M2	<0.300 mcg/kg
Deoxynivalenol	<56.0 mcg/kg
T-2 Toxin	<5.60 mcg/kg
HT-2 Toxin	<56.0 mcg/kg
Fumonisin B1	<14.3 mcg/kg
Fumonisin B2	<14.0 mcg/kg
Ochratoxin A	<1.00 mcg/kg
Zearalenone	<16.7 mcg/kg
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
1-Phenylethylamine	<59.2 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.18 mcg/Serving Size
2-Phenylethylamine	<59.2 mcg/Serving Size
Aegeline	<11.8 mcg/Serving Size
Amphetamine	<0.592 mcg/Serving Size
Benfluorex	<5.92 mcg/Serving Size
Benzphetamine	<0.592 mcg/Serving Size
Benzyl Sibutramine	<0.592 mcg/Serving Size
Bisacodyl	<0.592 mcg/Serving Size
Bumetanide	<5.92 mcg/Serving Size
Bupropion	<0.592 mcg/Serving Size
Cetilistat	<59.2 mcg/Serving Size
Chloro-Sibutramine	<1.18 mcg/Serving Size

* This analysis is not ISO accredited.

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 3 XPLC	Covance Sample:	6209055
Project ID	STACKER2-20170606-0001	Receipt Date	06-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size	1 Cap	Login Date	06-Jun-2017
		Online Order	30

Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Dapoxetine	<5.92 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.592 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.592 mcg/Serving Size
Ephedrine, methylpseudo-	<0.592 mcg/Serving Size
Ephedrine, methyl-	<0.592 mcg/Serving Size
Ephedrine, nor-	<0.592 mcg/Serving Size
Ephedrine, norpseudo-	<0.592 mcg/Serving Size
Ephedrine, pseudo-	<0.592 mcg/Serving Size
Fenfluramine	<0.592 mcg/Serving Size
Fenproporex	<0.592 mcg/Serving Size
Fluoxetine	<5.92 mcg/Serving Size
Furosemide	<59.2 mcg/Serving Size
Glybenclamide	<5.92 mcg/Serving Size
Homosibutramine	<1.18 mcg/Serving Size
Hordenine	<2.96 mcg/Serving Size
Lorcaserin	<5.92 mcg/Serving Size
Metformin	<5.92 mcg/Serving Size
Methylphenethylamine, beta	<0.592 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.592 mcg/Serving Size
N-Desmethyl sertraline	<5.92 mcg/Serving Size
N-Desmethyl sibutramine	<0.592 mcg/Serving Size
N-Didesmethyl sibutramine	<1.18 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.592 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.18 mcg/Serving Size
NIDA-41020	<1.18 mcg/Serving Size
N-Methyltryptamine	<1.18 mcg/Serving Size
N-Methyltyramine	<0.592 mcg/Serving Size
Octopamine	<592 mcg/Serving Size
Orlistat	<5.92 mcg/Serving Size
Paroxetine	<1.18 mcg/Serving Size
Phendimetrazine	<0.592 mcg/Serving Size
Phenolphthalein	<5.92 mcg/Serving Size
Phentermine	<1.18 mcg/Serving Size
Phenytoin	<59.2 mcg/Serving Size
Picamilon	<5.92 mcg/Serving Size
Propranolol	<2.96 mcg/Serving Size

* This analysis is not ISO accredited.

Certificate of Analysis

Stacker2 Europe BV

 Geerweg 2
 Sittard 6135KC Netherlands

Sample Name:	Stacker 3 XPLC	Covance Sample:	6209055
Project ID	STACKER2-20170606-0001	Receipt Date	06-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size	1 Cap	Login Date	06-Jun-2017
		Online Order	30

Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Rimonabant	<1.18 mcg/Serving Size
Sertraline	<0.592 mcg/Serving Size
Sibutramine	<0.592 mcg/Serving Size
Synephrine	<5.92 mcg/Serving Size
Theobromine	597 mcg/Serving Size
Theophylline	47.9 mcg/Serving Size
Topiramate	<11.8 mcg/Serving Size
Tyramine	14.2 mcg/Serving Size
Polycyclic Aromatic Hydrocarbons-Low Level *	
Benz(a)anthracene	0.00298 mcg/Serving Size
Benzo(a)pyrene	0.00129 mcg/Serving Size
Benzo(b)fluoranthene	0.00174 mcg/Serving Size
Benzo(g,h,i)perylene	0.00116 mcg/Serving Size
Benzo(k)fluoranthene	0.00194 mcg/Serving Size
Chrysene	0.00547 mcg/Serving Size
Dibenz(a,h)anthracene	0.000427 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	0.00105 mcg/Serving Size
Pyrene	0.00885 mcg/Serving Size

Method References	Testing Location
Calculated Sample Weight (PREP)	Covance Laboratories - Madison
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).	
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	

* This analysis is not ISO accredited.

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
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
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

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Covance.