

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Testo 4HD	Covance Sample:	6861597
Project ID	STACKER2-20180102-0001	Receipt Date	02-Jan-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	F73698	Login Date	02-Jan-2018
Sample Serving Size	1 Cap	Online Order	20

Analysis	Result
Calculated Sample Weight *	
Entity Weight	1.0101 g
Entity Fill Weight	1.0101 g
Entity Weight	1.0101 g
Entity Fill Weight	0.8700 g
Entity Weight	0.8230 g
Entity Fill Weight	0.7067 g
Water Soluble Vitamins by LC-MS/MS	
Pyridoxine	451 mcg/Serving Size
Yohimbe *	
Yohimbine	<100 ppm
Elements by ICP Mass Spectrometry	
Cadmium	0.195 mcg/Serving Size
Lead	0.219 mcg/Serving Size
Mercury	<0.0101 mcg/Serving Size
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
1-Phenylethylamine	<70.7 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.41 mcg/Serving Size
2-Phenylethylamine	<70.7 mcg/Serving Size
Aegeline	<14.1 mcg/Serving Size
Amphetamine	<0.707 mcg/Serving Size
Benfluorex	<7.07 mcg/Serving Size
Benzphetamine	<0.707 mcg/Serving Size
Benzyl Sibutramine	<0.707 mcg/Serving Size
Bisacodyl	<0.707 mcg/Serving Size
Bumetanide	<7.07 mcg/Serving Size
Bupropion	<0.707 mcg/Serving Size
Cetilistat	<70.7 mcg/Serving Size
Chloro-Sibutramine	<1.41 mcg/Serving Size
Dapoxetine	<7.07 mcg/Serving Size
Diclofenac	<7.07 mcg/Serving Size
Diethylpropion (Amfepramone)	<0.707 mcg/Serving Size
Emodin	<3.53 mcg/Serving Size
Ephedrine	<0.707 mcg/Serving Size
Ephedrine, methylpseudo-	<0.707 mcg/Serving Size
Ephedrine, methyl-	<0.707 mcg/Serving Size
Ephedrine, nor-	<0.707 mcg/Serving Size
Ephedrine, norpseudo-	<0.707 mcg/Serving Size

* This analysis is not ISO accredited.

Printed: 01-Feb-2018 8:13 am

Page 1 of 5

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Testo 4HD	Covance Sample:	6861597
Project ID	STACKER2-20180102-0001	Receipt Date	02-Jan-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	F73698	Login Date	02-Jan-2018
Sample Serving Size	1 Cap	Online Order	20

Analysis

Result

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

Ephedrine, pseudo-	<0.707 mcg/Serving Size
Fenfluramine	<0.707 mcg/Serving Size
Fenproporex	<0.707 mcg/Serving Size
Fluoxetine	<7.07 mcg/Serving Size
Furosemide	<70.7 mcg/Serving Size
Glybenclamide	<7.07 mcg/Serving Size
Homosibutramine	<1.41 mcg/Serving Size
Hordenine	<3.53 mcg/Serving Size
Lorcaserin	<7.07 mcg/Serving Size
Metformin	<7.07 mcg/Serving Size
Methylphenethylamine, beta	<0.707 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.707 mcg/Serving Size
N-Desmethyl sertraline	<7.07 mcg/Serving Size
N-Desmethyl sibutramine	<0.707 mcg/Serving Size
N-Didesmethyl sibutramine	<1.41 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.707 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.41 mcg/Serving Size
NIDA-41020	<1.41 mcg/Serving Size
N-Methyltryptamine	<1.41 mcg/Serving Size
N-Methyltyramine	<0.707 mcg/Serving Size
Octopamine	<707 mcg/Serving Size
Orlistat	<7.07 mcg/Serving Size
Paroxetine	<1.41 mcg/Serving Size
Phendimetrazine	<0.707 mcg/Serving Size
Phenolphthalein	<7.07 mcg/Serving Size
Phentermine	<1.41 mcg/Serving Size
Phenytoin	<70.7 mcg/Serving Size
Picamilon	<7.07 mcg/Serving Size
Propranolol	<3.53 mcg/Serving Size
Rimonabant	<1.41 mcg/Serving Size
Sertraline	<0.707 mcg/Serving Size
Sibutramine	<0.707 mcg/Serving Size
Synephrine	<7.07 mcg/Serving Size
Theobromine	34.4 mcg/Serving Size
Theophylline	<14.1 mcg/Serving Size
Topiramate	<14.1 mcg/Serving Size
Tyramine	<14.1 mcg/Serving Size

Polycyclic Aromatic Hydrocarbons-Low Level

* This analysis is not ISO accredited.

Printed: 01-Feb-2018 8:13 am

Page 2 of 5

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Testo 4HD	Covance Sample:	6861597
Project ID	STACKER2-20180102-0001	Receipt Date	02-Jan-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	F73698	Login Date	02-Jan-2018
Sample Serving Size	1 Cap	Online Order	20

Analysis

Result

Polycyclic Aromatic Hydrocarbons-Low Level

Benz(a)anthracene	<0.000177 mcg/Serving Size
Benzo(a)pyrene	<0.000177 mcg/Serving Size
Benzo(b)fluoranthene	<0.000177 mcg/Serving Size
Benzo(g,h,i)perylene	0.000266 mcg/Serving Size
Benzo(k)fluoranthene	<0.000177 mcg/Serving Size
Chrysene	0.000225 mcg/Serving Size
Dibenz(a,h)anthracene	<0.000177 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	<0.000177 mcg/Serving Size
Pyrene	0.000508 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). 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
Covance Inc. developed method	

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).

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

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

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

Andrew Hockin - Director

Covance Laboratories Limited
Otley Road
Harrogate North Yorkshire, United Kingdom HG3 1PY
+4401423 500011



Covance Laboratories - Madison

Edward Ladwig - Director

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



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.