

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 4	Eurofins Sample:	7973332
Project ID	STACKER2-20181218-0003	Receipt Date	18-Dec-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	1881664	Login Date	18-Dec-2018
Sample Serving Size	1 Cap	Online Order	30

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.6976 g
Entity Fill Weight	0.6024 g
Entity Weight	0.6951 g
Entity Fill Weight	0.6002 g
Yohimbe *	
Yohimbine	<100 mcg/g
Elements by ICP Mass Spectrometry	
Cadmium	5.86 mcg/100g
Lead	4.44 mcg/100g
Mercury	<0.500 mcg/100g
Mycotoxins in Raw Materials	
Aflatoxin B1	<0.500 mcg/kg
Aflatoxin B2	<0.500 mcg/kg
Aflatoxin G1	<0.500 mcg/kg
Aflatoxin G2	<0.500 mcg/kg
Aflatoxin M1	<0.500 mcg/kg
Aflatoxin M2	<0.500 mcg/kg
Deoxynivalenol	<100 mcg/kg
T-2 Toxin	<10.0 mcg/kg
HT-2 Toxin	<100 mcg/kg
Fumonisin B1	<25.0 mcg/kg
Fumonisin B2	<25.0 mcg/kg
Ochratoxin A	<1.00 mcg/kg
Zearalenone	<30.0 mcg/kg
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
1-Phenylethylamine	<100 mcg/g
2-Methylamino-1-phenylbutane	<2 mcg/g
2-Phenylethylamine	<100 mcg/g
Aegeline	<20 mcg/g
Amphetamine	<1 mcg/g
Benzphetamine	<1 mcg/g
Benzyl Sibutramine	<1 mcg/g
Bisacodyl	<1 mcg/g
Bumetanide	<10.0 mcg/g

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

Bupropion	<1 mcg/g
Cetilistat	<100 mcg/g
Chloro-Sibutramine	<2 mcg/g
Dapoxetine	<10 mcg/g
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<1 mcg/g
Emodin	<5 mcg/g
Ephedrine	<1 mcg/g
Ephedrine, methylpseudo-	<1 mcg/g
Ephedrine, methyl-	<1 mcg/g
Ephedrine, nor-	<1 mcg/g
Ephedrine, norpseudo-	<1 mcg/g
Ephedrine, pseudo-	<1 mcg/g
Fenfluramine	<1 mcg/g
Fenproporex	<1 mcg/g
Fluoxetine	<10 mcg/g
Furosemide	<100 mcg/g
Glybenclamide	<10 mcg/g
Homosibutramine	<2 mcg/g
Hordenine	<5 mcg/g
Lorcaserin	<10 mcg/g
Metformin	<10 mcg/g
Methylphenethylamine, beta	<1 mcg/g
N,N-Dimethylphenylethylamine	<1.00 mcg/g
N-Desmethyl sertraline	<10 mcg/g
N-Desmethyl sibutramine	<1 mcg/g
N-Didesmethyl sibutramine	<2 mcg/g
N,alpha-Diethylphenethylamine	<1 mcg/g
N-Formyl N,N-Didesmethyl Sibutramine	<2 mcg/g
NIDA-41020	<2 mcg/g
N-Methyltryptamine	<2 mcg/g
N-Methyltyramine	<1 mcg/g
Octopamine	<1000 mcg/g
Orlistat	<10 mcg/g
Paroxetine	<2 mcg/g

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Phendimetrazine	<1 mcg/g
Phenolphthalein	<10 mcg/g
Phentermine	<2 mcg/g
Phenytoin	<100 mcg/g
Picamilon	<10 mcg/g
Propranolol	<5 mcg/g
Rimonabant	<2 mcg/g
Sertraline	<1 mcg/g
Sibutramine	<1 mcg/g
Synephrine	<10 mcg/g
Theobromine	445 mcg/g
Theophylline	164 mcg/g
Topiramate	<20 mcg/g
Tyramine	<20 mcg/g

Polycyclic Aromatic Hydrocarbons-Low Level

Benz(a)anthracene	3.75 ppb
Benzo(a)pyrene	2.64 ppb
Benzo(b)fluoranthene	4.84 ppb
Chrysene	4.59 ppb
Sum of PAH4 analytes	15.8 ppb

Method References

Testing Location

Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison

Calculated Sample Weight (PREP_BREA)

Food Integrity Innovation-Brea

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-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
<p>Mycotoxins in Raw Materials (MYCO_REG_S)</p> <p>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).</p>	Food Integrity Innovation-Harrogate
<p>Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)</p> <p>Covance Inc. developed method</p>	Food Integrity Innovation-Madison
<p>Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)</p> <p>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).</p> <p>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).</p> <p>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).</p> <p>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).</p>	Food Integrity Innovation-Madison
<p>Yohimbe (MISC_OC)</p> <p>Covance Developed Method</p>	Food Integrity Innovation-Brea

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Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Brea

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Eurofins Food Integrity and Innovation accepts all liability for work conducted as of 01 Aug 2018.

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