

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Stacker 4	Eurofins Sample:	9082150
Project ID	ST2E-20200505-0001	Receipt Date	07-May-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	198197	Login Date	12-May-2020
Sample Serving Size	1 Cap	Date Started	12-May-2020
		Online Order	30

Analysis

Result

Calculated Sample Weight *

Entity Weight	0.5979 g
Entity Fill Weight	0.5001 g

Elements by ICP Mass Spectrometry

Cadmium	0.000 mcg/Serving Size
Lead	0.000 mcg/Serving Size
Mercury	<0.000 mcg/Serving Size

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

1-Phenylethylamine	<59.8 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.20 mcg/Serving Size
2-Phenylethylamine	<59.8 mcg/Serving Size
Aegeline	<12.0 mcg/Serving Size
Amphetamine	<0.598 mcg/Serving Size
Benzphetamine	<0.598 mcg/Serving Size
Benzyl Sibutramine	<0.598 mcg/Serving Size
Bisacodyl	<0.598 mcg/Serving Size
Bumetanide	<5.98 mcg/Serving Size
Bupropion	<0.598 mcg/Serving Size
Cetilistat	<59.8 mcg/Serving Size
Chloro-Sibutramine	<1.20 mcg/Serving Size
Dapoxetine	<5.98 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.598 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.598 mcg/Serving Size
Ephedrine, methylpseudo-	<0.598 mcg/Serving Size
Ephedrine, methyl-	<0.598 mcg/Serving Size
Ephedrine, nor-	<0.598 mcg/Serving Size
Ephedrine, norpseudo-	<0.598 mcg/Serving Size
Ephedrine, pseudo-	<0.598 mcg/Serving Size
Fenfluramine	<0.598 mcg/Serving Size
Fenproporex	<0.598 mcg/Serving Size
Fluoxetine	<5.98 mcg/Serving Size
Furosemide	<59.8 mcg/Serving Size
Glybenclamide	<5.98 mcg/Serving Size

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

Homosibutramine	<1.20 mcg/Serving Size
Hordenine	<2.99 mcg/Serving Size
Lorcaserin	<5.98 mcg/Serving Size
Metformin	<5.98 mcg/Serving Size
Methylphenethylamine, beta	<0.598 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.598 mcg/Serving Size
N-Desmethyl sertraline	<5.98 mcg/Serving Size
N-Desmethyl sibutramine	<0.598 mcg/Serving Size
N-Didesmethyl sibutramine	<1.20 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.598 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.20 mcg/Serving Size
NIDA-41020	<1.20 mcg/Serving Size
N-Methyltryptamine	<1.20 mcg/Serving Size
N-Methyltyramine	<0.598 mcg/Serving Size
Octopamine	<598 mcg/Serving Size
Orlistat	<5.98 mcg/Serving Size
Paroxetine	<1.20 mcg/Serving Size
Phendimetrazine	<0.598 mcg/Serving Size
Phenolphthalein	<5.98 mcg/Serving Size
Phentermine	<1.20 mcg/Serving Size
Phenytoin	<59.8 mcg/Serving Size
Picamilon	<5.98 mcg/Serving Size
Propranolol	<2.99 mcg/Serving Size
Rimonabant	<1.20 mcg/Serving Size
Sertraline	<0.598 mcg/Serving Size
Sibutramine	<0.598 mcg/Serving Size
Synephrine	<5.98 mcg/Serving Size
Theobromine	614 mcg/Serving Size
Theophylline	15.4 mcg/Serving Size
Topiramate	<12.0 mcg/Serving Size
Tyramine	25.4 mcg/Serving Size

Polycyclic Aromatic Hydrocarbons-Low Level

Benz(a)anthracene	<0.0100 mcg/Serving Size
Benzo(a)pyrene	<0.0100 mcg/Serving Size

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Polycyclic Aromatic Hydrocarbons-Low Level

Benzo(b)fluoranthene	<0.0100 mcg/Serving Size
Benzo(g,h,i)perylene	<0.0100 mcg/Serving Size
Benzo(k)fluoranthene	<0.0100 mcg/Serving Size
Chrysene	<0.0100 mcg/Serving Size
Dibenz(a,h)anthracene	<0.0100 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	<0.0100 mcg/Serving Size
Pyrene	<0.0100 mcg/Serving Size

Method References

Testing Location

Calculated Sample Weight (PREP)

Food Integrity Innovation-Madison

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).

Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)

Food Integrity Innovation-Madison

Internally Developed Method

Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)

Food Integrity Innovation-Madison

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Sittard 6135KC Netherlands

Method References

Testing Location

Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)

Food Integrity Innovation-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. 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-Pogue, 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).

Testing Location(s)

Released on Behalf of Eurofins by

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