

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	7-Phenylstack	Eurofins Sample:	11054844
Project ID	STACKER2-20211015-0002	Receipt Date	15-Oct-2021
PO Number	NA	Receipt Condition	Ambient temperature
Lot Number	EURO 2101	Login Date	15-Oct-2021
Sample Serving Size		Date Started	22-Oct-2021
		Sampled	Sample results apply as received
		Number Composited	20

Analysis

Result

Caffeine

Caffeine 227000 ppm

Elements by ICP Mass Spectrometry

Cadmium 7.31 ppb

Lead 51.7 ppb

Mercury <5.00 ppb

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

Benfluorex <10 mcg/g

Benzphetamine <1 mcg/g

Benzyl Sibutramine <1 mcg/g

Bisacodyl <1 mcg/g

Bumetanide <10.0 mcg/g

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

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

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
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	382 mcg/g
Theophylline	71 mcg/g
Topiramate	<20 mcg/g

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Tyramine	<20 mcg/g
Polycyclic Aromatic Hydrocarbons-Low Level	
Benz(a)anthracene	<0.250 ppb
Benzo(a)pyrene	<0.250 ppb
Benzo(b)fluoranthene	<0.250 ppb
Benzo(g,h,i)perylene	<0.250 ppb
Benzo(k)fluoranthene	<0.250 ppb
Chrysene	0.351 ppb
Dibenz(a,h)anthracene	<0.250 ppb
Indeno(1,2,3-c,d)pyrene	<0.250 ppb
Pyrene	0.598 ppb

Method References	Testing Location
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Caffeine (CAFR_S)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Blauch, J.L., Tarka, S.M., 'HPLC Determination of Caffeine and Theobromine in Coffee, Tea, and Instant Hot Cocoa Mixes'.
Journal of Food Science, 4B(3): 745-747 (1983) (modified).

Elements by ICP Mass Spectrometry (ICP_MS_S)	Food Integrity Innovation-Madison 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).
Paquette, 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 6304 Ronald Reagan Ave Madison, WI 53704 USA
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Internally Developed Method

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Method References

Testing Location

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

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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).

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

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