eurofins | Food Integrity & Innovation

Report Number: 3196944-0
Report Date: 12-Mar-2021
Report Status: Final

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	**Stacker 4**	**Eurofins Sample:**	**10333306**
Project ID	STACKER2-20210224-0001	**Receipt Date**	22-Feb-2021
PO Number	NA	**Receipt Condition**	Ambient temperature
Lot Number	2091M537	**Login Date**	24-Feb-2021
Sample Serving Size		**Date Started**	03-Mar-2021
		Sampled	Sample results apply as received

Analysis	Result
Aerobic Plate Count *	
Total Aerobic Microbial Count	2200 CFU/g
Preparatory Testing of Nutritional and Dietary Supplements *	
Aerobic Plate Suitability Result	Pass**
Elements by ICP Mass Spectrometry	
Cadmium	52.0 ppb
Lead	50.8 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

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
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
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	2000 mcg/g
Theophylline	219 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	3.84 ppb
Benzo(a)pyrene	3.97 ppb
Benzo(b)fluoranthene	5.17 ppb
Benzo(g,h,i)perylene	3.63 ppb
Benzo(k)fluoranthene	1.77 ppb
Chrysene	5.72 ppb
Dibenz(a,h)anthracene	0.323 ppb
Indeno(1,2,3-c,d)pyrene	2.72 ppb
Pyrene	21.2 ppb

Method References	Testing Location

Aerobic Plate Count (USPC2021)

Eurofins Micro Lab - Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.
To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.
**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison
3301 Kinsman Blvd Madison, WI 53704 USA

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
3301 Kinsman Blvd Madison, WI 53704 USA

Internally Developed Method

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Sittard 6135KC Netherlands

Method References	Testing Location
Preparatory Testing of Nutritional and Dietary Supplements (USPC_PT)	**Eurofins Micro Lab - Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA
Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)	**Food Integrity Innovation-Madison** 3301 Kinsman Blvd 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-Ruzickaa,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 Eurofins Food Chemistry Testing Madison, Inc. 3301 Kinsman Blvd Madison WI 53704 800-675-8375	**Edward Ladwig - President Eurofins Food Chemistry Testing Madison**

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