eurofins | Food Integrity & Innovation

Report Number: 3454214-0
Report Date: 02-Nov-2021
Report Status: Final

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	**Black Burn**	**Eurofins Sample:**	**11054845**
Project ID	STACKER2-20211015-0002	**Receipt Date**	15-Oct-2021
PO Number	NA	**Receipt Condition**	Ambient temperature
Lot Number	F06993	**Login Date**	15-Oct-2021
Sample Serving Size		**Date Started**	25-Oct-2021
		Sampled	Sample results apply as received

Analysis	Result
Caffeine	
Caffeine	311000 ppm
Elements by ICP Mass Spectrometry	
Cadmium	<5.00 ppb
Lead	16.1 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
Furosemide	<100 mcg/g

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
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	290 mcg/g
Theophylline	115 mcg/g
Topiramate	<20 mcg/g
Tyramine	<20 mcg/g
Polycyclic Aromatic Hydrocarbons-Low Level	

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Analysis	Result
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	0.434 ppb
Dibenz(a,h)anthracene	<0.250 ppb
Indeno(1,2,3-c,d)pyrene	<0.250 ppb
Pyrene	2.56 ppb

Method References	Testing Location
Caffeine (CAFR_S)	**Food Integrity Innovation-Madison** 6304 Ronald Reagan Ave Madison, WI 53704 USA

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

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

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-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. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	**Edward Ladwig - President Eurofins Food Chemistry Testing Madison** ilac-MRA A2LA ACCREDITED 2918.01

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