

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Black Burn F71980	Covance Sample:	6209059
Project ID	STACKER2-20170606-0001	Receipt Date	06-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size	1 Cap	Login Date	06-Jun-2017
		Online Order	30

Analysis	Result
Calculated Sample Weight *	
Entity Weight	0.6573 g
Entity Weight	0.6573 g
Entity Fill Weight	0.5570 g
Entity Weight	0.6822 g
Entity Fill Weight	0.5632 g
Water Soluble Vitamins by LC-MS/MS	
Pyridoxine	1020 mcg/Serving Size
Yohimbe *	
Yohimbe	Not Detected
Elements by ICP Mass Spectrometry	
Cadmium	<0.00657 mcg/Serving Size
Lead	0.0445 mcg/Serving Size
Mercury	<0.00657 mcg/Serving Size
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	<56.3 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1.13 mcg/Serving Size
2-Phenylethylamine	<56.3 mcg/Serving Size
Aegeline	<11.3 mcg/Serving Size
Amphetamine	<0.563 mcg/Serving Size
Benfluorex	<5.63 mcg/Serving Size
Benzphetamine	<0.563 mcg/Serving Size
Benzyl Sibutramine	<0.563 mcg/Serving Size
Bisacodyl	<0.563 mcg/Serving Size

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

Bumetanide	<5.63 mcg/Serving Size
Bupropion	<0.563 mcg/Serving Size
Cetilistat	<56.3 mcg/Serving Size
Chloro-Sibutramine	<1.13 mcg/Serving Size
Dapoxetine	<5.63 mcg/Serving Size
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.563 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.563 mcg/Serving Size
Ephedrine, methylpseudo-	<0.563 mcg/Serving Size
Ephedrine, methyl-	<0.563 mcg/Serving Size
Ephedrine, nor-	<0.563 mcg/Serving Size
Ephedrine, norpseudo-	<0.563 mcg/Serving Size
Ephedrine, pseudo-	<0.563 mcg/Serving Size
Fenfluramine	<0.563 mcg/Serving Size
Fenproporex	<0.563 mcg/Serving Size
Fluoxetine	<5.63 mcg/Serving Size
Furosemide	<56.3 mcg/Serving Size
Glybenclamide	<5.63 mcg/Serving Size
Homosibutramine	<1.13 mcg/Serving Size
Hordenine	<2.82 mcg/Serving Size
Lorcaserin	<5.63 mcg/Serving Size
Metformin	<5.63 mcg/Serving Size
Methylphenethylamine, beta	<0.563 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.563 mcg/Serving Size
N-Desmethyl sertraline	<5.63 mcg/Serving Size
N-Desmethyl sibutramine	<0.563 mcg/Serving Size
N-Didesmethyl sibutramine	<1.13 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.563 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.13 mcg/Serving Size
NIDA-41020	<1.13 mcg/Serving Size
N-Methyltryptamine	<1.13 mcg/Serving Size
N-Methyltyramine	<0.563 mcg/Serving Size
Octopamine	<563 mcg/Serving Size
Orlistat	<5.63 mcg/Serving Size
Paroxetine	<1.13 mcg/Serving Size
Phendimetrazine	<0.563 mcg/Serving Size
Phenolphthalein	<5.63 mcg/Serving Size

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Phentermine	<1.13 mcg/Serving Size
Phenytoin	<56.3 mcg/Serving Size
Picamilon	<5.63 mcg/Serving Size
Propranolol	<2.82 mcg/Serving Size
Rimonabant	<1.13 mcg/Serving Size
Sertraline	<0.563 mcg/Serving Size
Sibutramine	<0.563 mcg/Serving Size
Synephrine	<5.63 mcg/Serving Size
Theobromine	7240 mcg/Serving Size
Theophylline	29.0 mcg/Serving Size
Topiramate	<11.3 mcg/Serving Size
Tyramine	15.3 mcg/Serving Size
Polycyclic Aromatic Hydrocarbons-Low Level *	
Benz(a)anthracene	<0.000141 mcg/Serving Size
Benzo(a)pyrene	<0.000141 mcg/Serving Size
Benzo(b)fluoranthene	<0.000141 mcg/Serving Size
Benzo(g,h,i)perylene	<0.000141 mcg/Serving Size
Benzo(k)fluoranthene	<0.000141 mcg/Serving Size
Chrysene	<0.000141 mcg/Serving Size
Dibenz(a,h)anthracene	<0.000141 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	<0.000141 mcg/Serving Size
Pyrene	0.000268 mcg/Serving Size

Method References	Testing Location
Calculated Sample Weight (PREP)	Covance Laboratories - Madison
Calculated Sample Weight (PREP_HAR)	Covance Laboratories - Harrogate
Elements by ICP Mass Spectrometry (ICP_MS_S)	Covance Laboratories - Harrogate
Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).	
Mycotoxins in Raw Materials (MYCO_REG_S)	Covance Laboratories - Harrogate
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).	

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Method References

Testing Location

Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)

Covance Laboratories - Madison

Covance Inc. developed method

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

Covance Laboratories - 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. 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. Gryniwicz-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).

Water Soluble Vitamins by LC-MS/MS (BLCMS_S)

Covance Laboratories - Harrogate

Covance Developed Method

Yohimbe (YOHIMBE_S)

Analytical laboratories in Anaheim, Inc.

Testing Location(s)

Released on Behalf of Covance by

Covance Laboratories - Harrogate

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Andrew Hockin - Director



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