

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Black Burn micronized 6018115	Covance Sample:	6209060
Project ID	STACKER2-20170606-0001	Receipt Date	06-Jun-2017
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	06-Jun-2017
		Online Order	30

Analysis	Result
Yohimbe *	
Yohimbe	Not Detected
Elements by ICP Mass Spectrometry	
Cadmium	<1.00 mcg/100g
Lead	0.62 mcg/100g
Mercury	<1.00 mcg/100g
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	<10000 mcg/100g
2-Methylamino-1-phenylbutane	<200 mcg/100g
2-Phenylethylamine	<10000 mcg/100g
Aegeline	<2000 mcg/100g
Amphetamine	<100 mcg/100g
Benfluorex	<1000 mcg/100g
Benzphetamine	<100 mcg/100g
Benzyl Sibutramine	<100 mcg/100g
Bisacodyl	<100 mcg/100g
Bumetanide	<1000 mcg/100g
Bupropion	<100 mcg/100g
Cetilistat	<10000 mcg/100g
Chloro-Sibutramine	<200 mcg/100g
Dapoxetine	<1000 mcg/100g
Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<100 mcg/100g
Emodin	<5 mcg/g
Ephedrine	<100 mcg/100g

* This analysis is not ISO accredited.

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Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Ephedrine, methylpseudo-	<100 mcg/100g
Ephedrine, methyl-	<100 mcg/100g
Ephedrine, nor-	<100 mcg/100g
Ephedrine, norpseudo-	<100 mcg/100g
Ephedrine, pseudo-	<100 mcg/100g
Fenfluramine	<100 mcg/100g
Fenproporex	<100 mcg/100g
Fluoxetine	<1000 mcg/100g
Furosemide	<10000 mcg/100g
Glybenclamide	<1000 mcg/100g
Homosibutramine	<200 mcg/100g
Hordenine	<500 mcg/100g
Lorcaserin	<1000 mcg/100g
Metformin	<1000 mcg/100g
Methylphenethylamine, beta	<100 mcg/100g
N,N-Dimethylphenylethylamine	<100 mcg/100g
N-Desmethyl sertraline	<1000 mcg/100g
N-Desmethyl sibutramine	<100 mcg/100g
N-Didesmethyl sibutramine	<200 mcg/100g
N,alpha-Diethylphenethylamine	<100 mcg/100g
N-Formyl N,N-Didesmethyl Sibutramine	<200 mcg/100g
NIDA-41020	<200 mcg/100g
N-Methyltryptamine	<200 mcg/100g
N-Methyltyramine	<100 mcg/100g
Octopamine	<100000 mcg/100g
Orlistat	<1000 mcg/100g
Paroxetine	<200 mcg/100g
Phendimetrazine	<100 mcg/100g
Phenolphthalein	<1000 mcg/100g
Phentermine	<200 mcg/100g
Phenytoin	<10000 mcg/100g
Picamilon	<1000 mcg/100g
Propranolol	<500 mcg/100g
Rimonabant	<200 mcg/100g
Sertraline	<100 mcg/100g
Sibutramine	<100 mcg/100g
Synephrine	<1000 mcg/100g
Theobromine	7300 mcg/100g

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Theophylline	2800 mcg/100g
Topiramate	<2000 mcg/100g
Tyramine	<2000 mcg/100g
Polycyclic Aromatic Hydrocarbons-Low Level *	
Benz(a)anthracene	<0.025 mcg/100g
Benzo(a)pyrene	<0.025 mcg/100g
Benzo(b)fluoranthene	<0.025 mcg/100g
Benzo(g,h,i)perylene	<0.025 mcg/100g
Benzo(k)fluoranthene	<0.025 mcg/100g
Chrysene	<0.025 mcg/100g
Dibenz(a,h)anthracene	<0.025 mcg/100g
Indeno(1,2,3-c,d)pyrene	<0.025 mcg/100g
Pyrene	<0.025 mcg/100g

Method References	Testing Location
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).	
Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)	Covance Laboratories - Madison
Covance Inc. developed method	

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Method References

Testing Location

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. Venhuis, M.E. Zwaagstra, 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).

Yohimbe (YOHIMBE_S)

Analytical laboratories in Anaheim, Inc.

Testing Location(s)

Released on Behalf of Covance by

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Andrew Hockin - Director



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