

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

Sample Name:	Black Burn Micronized	Covance Sample:	6861585
Project ID	STACKER2-20180102-0001	Receipt Date	02-Jan-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	6019836	Login Date	02-Jan-2018
Sample Serving Size		Online Order	20

Analysis
Result
Yohimbe *

Yohimbine <100 ppm

Elements by ICP Mass Spectrometry

Cadmium <1.00 mcg/100g
Lead 0.959 mcg/100g
Mercury <1.00 mcg/100g

Mycotoxins in Raw Materials

Aflatoxin B1 <0.500 ng/g
Aflatoxin B2 <0.500 ng/g
Aflatoxin G1 <0.500 ng/g
Aflatoxin G2 <0.500 ng/g
Aflatoxin M1 <0.500 ng/g
Aflatoxin M2 <0.500 ng/g
Deoxynivalenol <100 ng/g
T-2 Toxin <10.0 ng/g
HT-2 Toxin <100 ng/g
Fumonisin B1 <25.0 ng/g
Fumonisin B2 <25.0 ng/g
Ochratoxin A <1.00 ng/g
Zearalenone <30.0 ng/g

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 <1000 mcg/100g
Diethylpropion (Amfepramone) <100 mcg/100g
Emodin <500 mcg/100g

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

Ephedrine	<100 mcg/100g
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

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Analysis	Result
Screening Method for the Detection of Adulterants in Weight Loss Supplements *	
Theobromine	6700 mcg/100g
Theophylline	4700 mcg/100g
Topiramate	<2000 mcg/100g
Tyramine	<2000 mcg/100g
Polycyclic Aromatic Hydrocarbons-Low Level	
Benz(a)anthracene	<0.0250 mcg/100g
Benzo(a)pyrene	<0.0250 mcg/100g
Benzo(b)fluoranthene	<0.0250 mcg/100g
Benzo(g,h,i)perylene	<0.0250 mcg/100g
Benzo(k)fluoranthene	<0.0250 mcg/100g
Chrysene	<0.0250 mcg/100g
Dibenz(a,h)anthracene	<0.0250 mcg/100g
Indeno(1,2,3-c,d)pyrene	<0.0250 mcg/100g
Pyrene	<0.0250 mcg/100g

Method References	Testing Location
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Elements by ICP Mass Spectrometry (ICP_MS_S)	Covance Laboratories - Harrogate
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Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).
 Pequette, 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 - 1242 (2011).

Mycotoxins in Raw Materials (MYCO_REG_S)	Covance Laboratories - Harrogate
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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
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Covance Inc. developed method

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Sittard 6135KC Netherlands

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. 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).

Yohimbe (YOHIMBE_S)

Covance Laboratories - Anaheim

Testing Location(s)

Released on Behalf of Covance by

Covance Laboratories - Anaheim

Richard Sanders - Manager

Covance Laboratories Inc.
2951 Saturn Street
Unit C
Brea California 92821
714-524-9988

Covance Laboratories - Harrogate

Andrew Hockin - Director

Covance Laboratories Limited
Otley Road
Harrogate North Yorkshire, United Kingdom HG3 1PY
+4401423 500011



Covance Laboratories - Madison

Edward Ladwig - Director

Covance Laboratories Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



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