

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>Black Burn Micronized</b>	<b>Eurofins Sample:</b>	<b>8896619</b>
<b>Project ID</b>	STACKER2-20191008-0001	<b>Receipt Date</b>	08-Oct-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	F92844	<b>Login Date</b>	08-Oct-2019
<b>Sample Serving Size</b>		<b>Date Started</b>	08-Oct-2019
		<b>Online Order</b>	30

Analysis	Result
<b>Elements by ICP Mass Spectrometry</b>	
Cadmium	<0.500 mcg/100g
Lead	1.95 mcg/100g
Mercury	<0.500 mcg/100g
<b>Mycotoxins in Raw Materials</b>	
Aflatoxin B1	<0.0500 mcg/100g
Aflatoxin B2	<0.0500 mcg/100g
Aflatoxin G1	<0.0500 mcg/100g
Aflatoxin G2	<0.0500 mcg/100g
Aflatoxin M1	<0.0500 mcg/100g
Aflatoxin M2	<0.0500 mcg/100g
Deoxynivalenol	<10.0 mcg/100g
T-2 Toxin	<1.00 mcg/100g
HT-2 Toxin	<10.0 mcg/100g
Fumonisin B1	<2.50 mcg/100g
Fumonisin B2	<2.50 mcg/100g
Ochratoxin A	<0.100 mcg/100g
Zearalenone	<3.00 mcg/100g
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements *</b>	
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
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

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#### Analysis

#### Result

#### 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

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#### Analysis

#### Result

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

Rimonabant	<200 mcg/100g
Sertraline	<100 mcg/100g
Sibutramine	<100 mcg/100g
Synephrine	<1000 mcg/100g
Theobromine	<2000 mcg/100g
Theophylline	<2000 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

#### Elements by ICP Mass Spectrometry (ICP\_MS\_S)

Food Integrity Innovation-Harrogate

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 - 1252 (2011).

#### Mycotoxins in Raw Materials (MYCO\_REG\_S)

Food Integrity Innovation-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)

Food Integrity Innovation-Madison

Internally Developed Method

#### Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1\_S)

Food Integrity Innovation-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. 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-Pogue, 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).

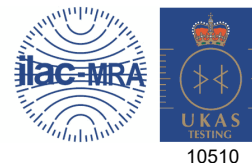
### Testing Location(s)

### Released on Behalf of Eurofins by

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