

## 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>10333294</b>
<b>Project ID</b>	STACKER2-20210224-0001	<b>Receipt Date</b>	22-Feb-2021
<b>PO Number</b>	NA	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	60348422	<b>Login Date</b>	24-Feb-2021
<b>Sample Serving Size</b>		<b>Date Started</b>	03-Mar-2021
		<b>Sampled</b>	Sample results apply as received

#### Analysis

#### Result

##### Aerobic Plate Count \*

Total Aerobic Microbial Count 3700 CFU/g

##### Preparatory Testing of Nutritional and Dietary Supplements \*

Aerobic Plate Suitability Result Pass\*\*

##### Elements by ICP Mass Spectrometry

Cadmium <5.00 ppb  
Lead 7.46 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

\* This analysis or component is not ISO accredited.

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

Fenfluramine	<1 mcg/g
Fenproporex	<1 mcg/g
Fluoxetine	<10 mcg/g
Furosemide	<100 mcg/g
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

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

Theobromine	44 mcg/g
Theophylline	<20 mcg/g
Topiramate	<20 mcg/g
Tyramine	<20 mcg/g

#### 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	<0.250 ppb
Dibenz(a,h)anthracene	<0.250 ppb
Indeno(1,2,3-c,d)pyrene	<0.250 ppb
Pyrene	<0.250 ppb

#### Method References

#### Testing Location

#### Aerobic Plate Count (USPC2021)

#### Eurofins Micro Lab - Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

USP Current revision, Chapter 2021.

To satisfy the requirements of the USP, the Preparatory Test must be completed on each matrix.

\*\*Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

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Sittard 6135KC Netherlands

Method References	Testing Location
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**Elements by ICP Mass Spectrometry (ICP\_MS\_S)**

**Food Integrity Innovation-Madison**

3301 Kinsman Blvd 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**

3301 Kinsman Blvd Madison, WI 53704 USA

Internally Developed Method

**Preparatory Testing of Nutritional and Dietary Supplements (USPC\_PT)**

**Eurofins Micro Lab - Madison**

6304 Ronald Reagan Ave Madison, WI 53704 USA

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

**Food Integrity Innovation-Madison**

3301 Kinsman Blvd 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. 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-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).

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**Testing Location(s)****Released on Behalf of Eurofins by****Food Integrity Innovation-Madison**

Eurofins Food Chemistry Testing Madison, Inc.  
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Chemistry Testing Madison



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