

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>Thermodrene XT</b>	<b>Eurofins Sample:</b>	<b>8896628</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>	F93086	<b>Login Date</b>	08-Oct-2019
<b>Sample Serving Size</b>	1 Cap	<b>Date Started</b>	08-Oct-2019
		<b>Online Order</b>	30

Analysis	Result
<b>Calculated Sample Weight *</b>	
Entity Weight	0.7954 g
Entity Fill Weight	0.6591 g
<b>Elements by ICP Mass Spectrometry</b>	
Cadmium	0.000 mcg/Serving Size
Lead	0.000 mcg/Serving Size
Mercury	<0.000 mcg/Serving Size
<b>Mycotoxins in Raw Materials</b>	
Aflatoxin B1	<0.000330 mcg/Serving Size
Aflatoxin B2	<0.000330 mcg/Serving Size
Aflatoxin G1	<0.000330 mcg/Serving Size
Aflatoxin G2	<0.000330 mcg/Serving Size
Aflatoxin M1	<0.000330 mcg/Serving Size
Aflatoxin M2	<0.000330 mcg/Serving Size
Deoxynivalenol	<0.0659 mcg/Serving Size
T-2 Toxin	<0.00659 mcg/Serving Size
HT-2 Toxin	<0.0659 mcg/Serving Size
Fumonisin B1	<0.0165 mcg/Serving Size
Fumonisin B2	<0.0165 mcg/Serving Size
Ochratoxin A	<0.000659 mcg/Serving Size
Zearalenone	<0.0198 mcg/Serving Size
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements *</b>	
1-Phenylethylamine	83.4 mcg/Serving Size
2-Methylamino-1-phenylbutane	<1 mcg/Serving Size
2-Phenylethylamine	83.4 mcg/Serving Size
Aegeline	<13 mcg/Serving Size
Amphetamine	<0.7 mcg/Serving Size
Benzphetamine	<0.7 mcg/Serving Size
Benzyl Sibutramine	<0.7 mcg/Serving Size
Bisacodyl	<0.7 mcg/Serving Size
Bumetanide	<6.59 mcg/Serving Size
Bupropion	<0.7 mcg/Serving Size
Cetilistat	<65.9 mcg/Serving Size
Chloro-Sibutramine	<1.32 mcg/Serving Size
Dapoxetine	<6.59 mcg/Serving Size

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#### Analysis

#### Result

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

Diclofenac	<10 mcg/g
Diethylpropion (Amfepramone)	<0.659 mcg/Serving Size
Emodin	<5 mcg/g
Ephedrine	<0.659 mcg/Serving Size
Ephedrine, methylpseudo-	<0.659 mcg/Serving Size
Ephedrine, methyl-	<0.659 mcg/Serving Size
Ephedrine, nor-	<0.659 mcg/Serving Size
Ephedrine, norpseudo-	<0.659 mcg/Serving Size
Ephedrine, pseudo-	<0.659 mcg/Serving Size
Fenfluramine	<0.659 mcg/Serving Size
Fenproporex	<0.659 mcg/Serving Size
Fluoxetine	<6.59 mcg/Serving Size
Furosemide	<65.9 mcg/Serving Size
Glybenclamide	<6.59 mcg/Serving Size
Homosibutramine	<1.32 mcg/Serving Size
Hordenine	<3.30 mcg/Serving Size
Lorcaserin	<6.59 mcg/Serving Size
Metformin	<6.59 mcg/Serving Size
Methylphenethylamine, beta	<0.659 mcg/Serving Size
N,N-Dimethylphenylethylamine	<0.659 mcg/Serving Size
N-Desmethyl sertraline	<6.59 mcg/Serving Size
N-Desmethyl sibutramine	<0.659 mcg/Serving Size
N-Didesmethyl sibutramine	<1.32 mcg/Serving Size
N,alpha-Diethylphenethylamine	<0.659 mcg/Serving Size
N-Formyl N,N-Didesmethyl Sibutramine	<1.32 mcg/Serving Size
NIDA-41020	<1.32 mcg/Serving Size
N-Methyltryptamine	<1.32 mcg/Serving Size
N-Methyltyramine	<0.659 mcg/Serving Size
Octopamine	<659 mcg/Serving Size
Orlistat	<6.59 mcg/Serving Size
Paroxetine	<1.32 mcg/Serving Size
Phendimetrazine	<0.659 mcg/Serving Size
Phenolphthalein	<6.59 mcg/Serving Size
Phentermine	<1.32 mcg/Serving Size

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#### Analysis

#### Result

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

Phenytoln	<65.9 mcg/Serving Size
Picamilon	<6.59 mcg/Serving Size
Propranolol	<3.30 mcg/Serving Size
Rimonabant	<1.32 mcg/Serving Size
Sertraline	<0.659 mcg/Serving Size
Sibutramine	<0.659 mcg/Serving Size
Synephrine	<6.59 mcg/Serving Size
Theobromine	367 mcg/Serving Size
Theophylline	20.1 mcg/Serving Size
Topiramate	<13.2 mcg/Serving Size
Tyramine	<13.2 mcg/Serving Size
Method Note	A detection of 1- and 2-phenylethylamine indicates one or both are present. The ADULTER1 test cannot differentiate between the two, so both are reported at identical concentrations.
Method Note 2	The total concentration of both isomers is expected to be the reported value, not a sum of the two.

#### Polycyclic Aromatic Hydrocarbons-Low Level

Benz(a)anthracene	<0.000165 mcg/Serving Size
Benzo(a)pyrene	<0.000165 mcg/Serving Size
Benzo(b)fluoranthene	<0.000165 mcg/Serving Size
Benzo(g,h,i)perylene	<0.000165 mcg/Serving Size
Benzo(k)fluoranthene	<0.000165 mcg/Serving Size
Chrysene	<0.000165 mcg/Serving Size
Dibenz(a,h)anthracene	<0.000165 mcg/Serving Size
Indeno(1,2,3-c,d)pyrene	<0.000165 mcg/Serving Size
Pyrene	<0.000165 mcg/Serving Size

#### Method References

#### Testing Location

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Method References	Testing Location
<b>Calculated Sample Weight (PREP)</b>	<b>Food Integrity Innovation-Madison</b>
<b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b> 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).	<b>Food Integrity Innovation-Harrogate</b>
<b>Mycotoxins in Raw Materials (MYCO_REG_S)</b> 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).	<b>Food Integrity Innovation-Harrogate</b>
<b>Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)</b> Internally Developed Method	<b>Food Integrity Innovation-Madison</b>
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)</b> 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).	<b>Food Integrity Innovation-Madison</b>

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**Testing Location(s)**

**Released on Behalf of Eurofins by**

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