

Certificate of Analysis

Stacker2 Europe BV

 Geerweg 2
 Sittard 6135KC Netherlands

Sample Name:	Thermodrene XT	Covance Sample:	7381682
Project ID	STACKER2-20180611-0002	Receipt Date	11-Jun-2018
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	F181110	Login Date	11-Jun-2018
Sample Serving Size	1 Cap	Online Order	30

Analysis	Result
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Calculated Sample Weight *

Entity Weight	0.7836 g
Entity Fill Weight	0.6606 g
Entity Weight	0.7836 g
Entity Weight	0.7833 g
Entity Fill Weight	0.6949 g
Entity Weight	0.7852 g
Entity Fill Weight	0.6596 g

Water Soluble Vitamins by LC-MS/MS

Pyridoxine	1660 mcg/g
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Yohimbine *

Yohimbine	<100 mcg/g
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Elements by ICP Mass Spectrometry

Cadmium	21.1 ppb
Lead	54.1 ppb
Mercury	<5.00 ppb

Mycotoxins in Raw Materials

Aflatoxin B1	<0.500 ng/g
Aflatoxin B2	<0.500 ng/g
Aflatoxin G1	<0.500 ng/g
Aflatoxin G2	18.1 ng/g
Aflatoxin M1	<0.500 ng/g
Aflatoxin M2	0.680 ng/g
Deoxynivalenol	2660 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	21500 mcg/100g
2-Methylamino-1-phenylbutane	<200 mcg/100g
2-Phenylethylamine	21500 mcg/100g
Aegeline	<2000 mcg/100g
Amphetamine	<100 mcg/100g
Benfluorex	<1000 mcg/100g

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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
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

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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	38800 mcg/100g
Theophylline	3700 mcg/100g
Topiramate	<2000 mcg/100g
Tyramine	<2000 mcg/100g

Polycyclic Aromatic Hydrocarbons-Low Level

Benz(a)anthracene	<0.250 ppb
Benzo(a)pyrene	<0.250 ppb
Benzo(b)fluoranthene	<0.250 ppb
Chrysene	<0.250 ppb
Sum of PAH4 analytes	<1.00 ppb

Method References
Testing Location

Calculated Sample Weight (PREP)	Covance Laboratories - Madison
Calculated Sample Weight (PREP_BREA)	Covance Laboratories - Brea
Calculated Sample Weight (PREP_HAR)	Covance Laboratories - Harrogate
Elements by ICP Mass Spectrometry (ICP_MS_S)	Covance Laboratories - 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).

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Method References

Testing Location

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

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. Gucinska, Jamie D. Dunna, Connie M. Gryniowicz-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).

Water Soluble Vitamins by LC-MS/MS (BLCMS_S)

Covance Laboratories - Madison

Covance Internal Method

Other supporting references:

Vitamin B12: AOAC 2011,10. Determination of Vitamin B12 in Infant Formula and Adult Nutritionals by HPLC (Vitamin B12 extraction)

Yohimbine (MISC_OC)

Covance Laboratories - Brea

Covance Developed Method

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Testing Location(s)

Released on Behalf of Covance by

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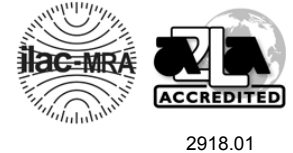
Andrew Hockin - Director



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Edward Ladwig - Director



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