

## Certificate of Analysis

### Stacker2 Europe BV

Geerweg 2  
Sittard 6135KC Netherlands

<b>Sample Name:</b>	<b>Rush V4 F70871</b>	<b>Covance Sample:</b>	<b>6209071</b>
<b>Project ID</b>	STACKER2-20170606-0001	<b>Receipt Date</b>	06-Jun-2017
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>		<b>Login Date</b>	06-Jun-2017
		<b>Online Order</b>	30

Analysis	Result
<b>Water Soluble Vitamins by LC-MS/MS</b>	
Pyridoxine	20900 mcg/100g
<b>Yohimbe *</b>	
Yohimbe	Not Detected
<b>Elements by ICP Mass Spectrometry</b>	
Cadmium	<1.00 mcg/100g
Lead	0.97 mcg/100g
Mercury	10.5 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
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	<10 mcg/g
Diethylpropion (Amfepramone)	<100 mcg/100g
Emodin	<5 mcg/g
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

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Analysis	Result
<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements *</b>	
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
Theobromine	<2000 mcg/100g
Theophylline	<2000 mcg/100g
Topiramate	<2000 mcg/100g
Tyramine	<2000 mcg/100g
<b>Polycyclic Aromatic Hydrocarbons-Low Level *</b>	
Benz(a)anthracene	0.025 mcg/100g
Benzo(a)pyrene	<0.025 mcg/100g
Benzo(b)fluoranthene	<0.025 mcg/100g
Benzo(g,h,i)perylene	<0.025 mcg/100g
Benzo(k)fluoranthene	<0.025 mcg/100g
Chrysene	0.051 mcg/100g
Dibenz(a,h)anthracene	<0.025 mcg/100g
Indeno(1,2,3-c,d)pyrene	<0.025 mcg/100g

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Analysis	Result
<b>Polycyclic Aromatic Hydrocarbons-Low Level *</b>	
Pyrene	0.090 mcg/100g

Method References	Testing Location
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<b>Elements by ICP Mass Spectrometry (ICP_MS_S)</b> Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).	<b>Covance Laboratories - Harrogate</b>
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<b>Polycyclic Aromatic Hydrocarbons-Low Level (LLPAH_S)</b> Covance Inc. developed method	<b>Covance Laboratories - Madison</b>
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<b>Screening Method for the Detection of Adulterants in Weight Loss Supplements (ADULTER1_S)</b>	<b>Covance Laboratories - Madison</b>
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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).

<b>Water Soluble Vitamins by LC-MS/MS (BLCMS_S)</b> Covance Developed Method	<b>Covance Laboratories - Harrogate</b>
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<b>Yohimbe (YOHIMBE_S)</b>	<b>Analytical laboratories in Anaheim, Inc.</b>
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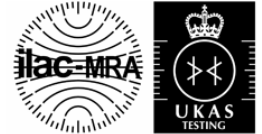
**Testing Location(s)**

**Released on Behalf of Covance by**

**Covance Laboratories - Harrogate**

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

**Andrew Hockin - Director**



8462

**Covance Laboratories - Madison**

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

**Edward Ladwig - Director**

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