

Certificate of Analysis

Stacker2 Europe BV

Geerweg 2
Sittard 6135KC Netherlands

| | | | |
|----------------------------|-------------------------|--------------------------|---------------------|
| Sample Name: | Testo 4HD F71469 | Covance Sample: | 6209074 |
| Project ID | STACKER2-20170606-0001 | Receipt Date | 06-Jun-2017 |
| PO Number | CVD | Receipt Condition | Ambient temperature |
| Sample Serving Size | 1 Cap | Login Date | 06-Jun-2017 |
| | | Online Order | 30 |

| Analysis | Result |
|---|---------------------------|
| Calculated Sample Weight * | |
| Entity Weight | 0.8306 g |
| Entity Weight | 0.8306 g |
| Entity Fill Weight | 0.7164 g |
| Entity Weight | 0.8675 g |
| Entity Fill Weight | 0.7506 g |
| Water Soluble Vitamins by LC-MS/MS | |
| Pyridoxine | 949 mcg/Serving Size |
| Yohimbe * | |
| Yohimbe | Not Detected |
| Elements by ICP Mass Spectrometry | |
| Cadmium | 0.0654 mcg/Serving Size |
| Lead | 0.0572 mcg/Serving Size |
| Mercury | <0.00831 mcg/Serving Size |
| Screening Method for the Detection of Adulterants in Weight Loss Supplements * | |
| 1-Phenylethylamine | <75.1 mcg/Serving Size |
| 2-Methylamino-1-phenylbutane | <1.50 mcg/Serving Size |
| 2-Phenylethylamine | <75.1 mcg/Serving Size |
| Aegeline | <15.0 mcg/Serving Size |
| Amphetamine | <0.751 mcg/Serving Size |
| Benfluorex | <7.51 mcg/Serving Size |
| Benzphetamine | <0.751 mcg/Serving Size |
| Benzyl Sibutramine | <0.751 mcg/Serving Size |
| Bisacodyl | <0.751 mcg/Serving Size |
| Bumetanide | <7.51 mcg/Serving Size |
| Bupropion | <0.751 mcg/Serving Size |
| Cetilistat | <75.1 mcg/Serving Size |
| Chloro-Sibutramine | <2 mcg/Serving Size |
| Dapoxetine | <7.5 mcg/Serving Size |
| Diclofenac | <10 mcg/g |
| Diethylpropion (Amfepramone) | <0.8 mcg/Serving Size |
| Emodin | <5 mcg/g |
| Ephedrine | <0.8 mcg/Serving Size |
| Ephedrine, methylpseudo- | <0.8 mcg/Serving Size |
| Ephedrine, methyl- | <0.8 mcg/Serving Size |
| Ephedrine, nor- | <0.8 mcg/Serving Size |
| Ephedrine, norpseudo- | <0.8 mcg/Serving Size |
| Ephedrine, pseudo- | <0.8 mcg/Serving Size |

* This analysis is not ISO accredited.

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| Analysis | Result |
|---|----------------------------|
| Screening Method for the Detection of Adulterants in Weight Loss Supplements * | |
| Fenfluramine | <0.8 mcg/Serving Size |
| Fenproporex | <0.8 mcg/Serving Size |
| Fluoxetine | <7.5 mcg/Serving Size |
| Furosemide | <75.1 mcg/Serving Size |
| Glybenclamide | <7.51 mcg/Serving Size |
| Homosibutramine | <1.50 mcg/Serving Size |
| Hordenine | <3.75 mcg/Serving Size |
| Lorcaserin | <7.51 mcg/Serving Size |
| Metformin | <7.51 mcg/Serving Size |
| Methylphenethylamine, beta | <0.751 mcg/Serving Size |
| N,N-Dimethylphenylethylamine | <0.751 mcg/Serving Size |
| N-Desmethyl sertraline | <7.51 mcg/Serving Size |
| N-Desmethyl sibutramine | <0.751 mcg/Serving Size |
| N-Didesmethyl sibutramine | <1.50 mcg/Serving Size |
| N,alpha-Diethylphenethylamine | <0.751 mcg/Serving Size |
| N-Formyl N,N-Didesmethyl Sibutramine | <1.50 mcg/Serving Size |
| NIDA-41020 | <1.50 mcg/Serving Size |
| N-Methyltryptamine | <1.50 mcg/Serving Size |
| N-Methyltyramine | <0.751 mcg/Serving Size |
| Octopamine | <751 mcg/Serving Size |
| Orlistat | <7.51 mcg/Serving Size |
| Paroxetine | <1.50 mcg/Serving Size |
| Phendimetrazine | <0.751 mcg/Serving Size |
| Phenolphthalein | <7.51 mcg/Serving Size |
| Phentermine | <1.50 mcg/Serving Size |
| Phenytoin | <75.1 mcg/Serving Size |
| Picamilon | <7.51 mcg/Serving Size |
| Propranolol | <3.75 mcg/Serving Size |
| Rimonabant | <1.50 mcg/Serving Size |
| Sertraline | <0.751 mcg/Serving Size |
| Sibutramine | <0.751 mcg/Serving Size |
| Synephrine | 9.66 mcg/Serving Size |
| Theobromine | 65.2 mcg/Serving Size |
| Theophylline | <15.0 mcg/Serving Size |
| Topiramate | <15.0 mcg/Serving Size |
| Tyramine | <15.0 mcg/Serving Size |
| Polycyclic Aromatic Hydrocarbons-Low Level * | |
| Benz(a)anthracene | <0.000188 mcg/Serving Size |

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|---|----------------------------|
| Polycyclic Aromatic Hydrocarbons-Low Level * | |
| Benzo(a)pyrene | <0.000188 mcg/Serving Size |
| Benzo(b)fluoranthene | <0.000188 mcg/Serving Size |
| Benzo(g,h,i)perylene | 0.000462 mcg/Serving Size |
| Benzo(k)fluoranthene | <0.000188 mcg/Serving Size |
| Chrysene | 0.000255 mcg/Serving Size |
| Dibenz(a,h)anthracene | <0.000188 mcg/Serving Size |
| Indeno(1,2,3-c,d)pyrene | <0.000188 mcg/Serving Size |
| Pyrene | 0.000787 mcg/Serving Size |

| Method References | Testing Location |
|--|---|
| Calculated Sample Weight (PREP) | Covance Laboratories - Madison |
| 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). | |
| 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. 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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Method References

Testing Location

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

Covance Laboratories - Harrogate

Covance Developed Method

Yohimbe (YOHIMBE_S)

Analytical laboratories in Anaheim, Inc.

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



Covance Laboratories - Madison

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

Edward Ladwig - Director

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