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Hair analysis for pharmaceutical drugs. II. Effective extraction and determination of sildenafil (Viagra) and its N-desmethyl metabolite in rat and human hair by GC-MS

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Biological and Pharmaceutical Bulletin, 2001, 24, 1384-8.

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#	Paper	IF	Citations
36	An ionic liquid coating for determination of sildenafil and UK-103,320 in human serum by capillary zone electrophoresis-ion trap mass spectrometry. <i>Electrophoresis</i> , 2002 , 23, 4110-6	3.6	94
35	Simultaneous identification/determination system for phentolamine and sildenafil as adulterants in soft drinks advertising roborant nutrition. <i>Forensic Science International</i> , 2002 , 130, 140-6	2.6	41
34	Current literature in mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002 , 37, 443-53	2.2	
33	Simultaneous determination of sildenafil and its active metabolite UK-103,320 in human plasma using liquid chromatography-tandem mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 32, 317-22	3.5	34
32	Solid phase extraction and liquid chromatographic determination of sildenafil and N-demethylsildenafil in rat serum with basic mobile phase. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 40, 952-7	3.5	19
31	Simultaneous determination of sildenafil and N-desmethyl sildenafil in human plasma by high-performance liquid chromatography method using electrochemical detection with application to a pharmacokinetic study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 613-8	3.5	39
30	Liquid chromatography tandem mass spectrometry assay to determine the pharmacokinetics of sildenafil in human plasma. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 44, 231-5	3.5	20
29	Analytical pitfalls in hair testing. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 388, 1475-94	4.4	107
28	Off-line HPLC method combined to LC-MS for the determination of sildenafil and its active metabolite in post-mortem human blood according to confirmation criteria. <i>Forensic Science International</i> , 2008 , 178, 192-8	2.6	27
27	Chemical Profile of Sildenafil and Related Compounds. <i>Japanese Journal of Forensic Science and Technology</i> , 2008 , 13, 73-82	0.1	6
26	Hair analysis to demonstrate administration of sildenafil to a woman in a case of drug-facilitated sexual assault. <i>Journal of Analytical Toxicology</i> , 2009 , 33, 553-6	2.9	17
25	Effect of sample pre-treatment on the determination of steroid esters in hair of bovine calves. <i>Journal of Chromatography A</i> , 2009 , 1216, 8233-9	4.5	10
24	Identification of sildenafil, tadalafil and vardenafil by gas chromatography-mass spectrometry on short capillary column. <i>Journal of Chromatography A</i> , 2009 , 1216, 8426-30	4.5	50
23	A gas chromatography/mass spectrometry method for the determination of sildenafil, vardenafil and tadalafil and their metabolites in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2010 , 24, 1697-706	2.2	44
22	Horse metabolism and the photocatalytic process as a tool to identify metabolic products formed from dopant substances: the case of sildenafil. <i>Drug Testing and Analysis</i> , 2011 , 3, 724-34	3.5	15
21	Chromatographic determination of sildenafil in blood plasma using spectrophotometric and mass-spectrometric detection. <i>Journal of Analytical Chemistry</i> , 2013 , 68, 801-808	1.1	6
20	Development and validation of RP-HPLC method for sildenafil citrate in rat plasma-application to pharmacokinetic studies. <i>Saudi Pharmaceutical Journal</i> , 2013 , 21, 317-21	4.4	11

19	Development and validation of RP-HPLC method for simultaneous estimation of glimepiride and sildenafil citrate in rat plasma-application to pharmacokinetic studies. <i>Drug Research</i> , 2013 , 63, 510-4	1.8	7
18	Changes in the pharmacokinetic of sildenafil citrate in rats with Streptozotocin-induced diabetic nephropathy. <i>Journal of Diabetes and Metabolic Disorders</i> , 2014 , 13, 8	2.5	9
17	Synthetic phosphodiesterase-5-inhibitors use/abuse and interest of hair testing: reporting of a rape case. <i>Drug Testing and Analysis</i> , 2014 , 6 Suppl 1, 17-21	3.5	1
16	Screening of synthetic PDE-5 inhibitors and their analogues as adulterants: analytical techniques and challenges. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 87, 176-90	3.5	105
15	Anatomy and Physiology of Hair, and Principles for its Collection. 2015 , 1-22		3
14	Does glimepiride alter the pharmacokinetics of sildenafil citrate in diabetic nephropathy animals: investigating mechanism of interaction by molecular modeling studies. <i>Journal of Molecular Modeling</i> , 2015 , 21, 276	2	7
13	An LC-MS/MS method for the determination of five erectile dysfunction drugs and their selected metabolites in hair. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 978-979, 1-10	3.2	15
12	Rapid determination of sildenafil and its analogues in dietary supplements using gas chromatography-triple quadrupole mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 121, 188-196	3.5	23
11	Sildenafil, a phosphodiesterase type 5 inhibitor, attenuates diabetic nephropathy in STZ-induced diabetic rats. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2016 , 27, 57-62	1.6	9
10	QbD-Driven Development and Validation of Liquid Chromatography Tandem Mass Spectrometric Method for the Quantitation of Sildenafil in Human Plasma. <i>Journal of Chromatographic Science</i> , 2017 , 55, 587-594	1.4	11
9	The interpretation of hair analysis for drugs and drug metabolites. <i>Clinical Toxicology</i> , 2018 , 56, 90-100	2.9	41
8	Allelopathic Effects on <i>Microcystis aeruginosa</i> and Allelochemical Identification in the Culture Solutions of Typical Artificial Floating-Bed Plants. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019 , 102, 115-121	2.7	8
7	Fabrication of UiO-66-NH ₂ @Cellulose Hybrid Aerogel for Solid Phase Extraction of Sildenafil in Health Products. <i>SSRN Electronic Journal</i> ,	1	
6	Determination of the PDE-5 Inhibitors and Their Analogues by GC-MS and TMS Derivatization. <i>Mass Spectrometry Letters</i> , 2012 , 3, 15-17		4
5	Phosphodiesterase-5 (PDE-5) Inhibitors as Emergent Environmental Contaminants: Advanced Remediation and Analytical Methods. <i>Water (Switzerland)</i> , 2021 , 13, 2859	3	
4	Modern Methods for Identification and Quantitative Analysis of Undeclared Phosphodiesterase-5 Inhibitors as Pharmaceutically Active Substances in Dietary Supplements (Review). <i>Pharmaceutical Chemistry Journal</i> , 2022 , 55, 1395-1400	0.9	0
3	Utilization of UiO-66-NH ₂ @cellulose hybrid aerogel for solid-phase extraction of sildenafil in health products. <i>Chinese Journal of Chromatography (Se Pu)</i> , 2022 , 40, 556-564	0.2	
2	A Comprehensive Review on Analytical Techniques for Determination of Sex Stimulants, PDE5 Inhibitors in Different Matrices with Special Focus on the Electroanalytical Methods. 1-30		0

- 1 Hair analysis as a powerful tool for the identification of anabolic androgenic steroids and other performance and image enhancing drugs in a subject with tissues damages.

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