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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

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Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 613-8.

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#	Paper	IF	Citations
39	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
38	A rapid and sensitive LC-MS/MS assay to quantify yonkenafil in rat plasma with application to preclinical pharmacokinetics studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 985-9	3.5	5
37	Bicyclic 5-6 Systems: Other Four Heteroatoms 2:2. 2008 , 599-659		4
36	High-performance liquid chromatographic method for determination of phenytoin in rabbits receiving sildenafil. <i>Analytical Chemistry Insights</i> , 2008 , 3, 61-7		3
35	Simple and sensitive LC-ESI-MS method for the quantitation of sildenafil in plasma samples. <i>Journal of Separation Science</i> , 2009 , 32, 3866-70	3.4	14
34	Simultaneous assay of sildenafil and desmethylsildenafil in neonatal plasma by ultra-performance liquid chromatography-tandem mass spectrometry. <i>Biomedical Chromatography</i> , 2010 , 24, 180-5	1.7	12
33	The effects of pummelo juice on pharmacokinetics of sildenafil in healthy adult male Jordanian volunteers. <i>European Journal of Clinical Pharmacology</i> , 2010 , 66, 159-63	2.8	24
32	Spectrophotometric determination of sildenafil citrate in pure form and in pharmaceutical formulation using some chromotropic acid azo dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 1297-303	4.4	18
31	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
30	Phosphodiesterase type V inhibitors: Occurrence and fate in wastewater and sewage sludge. <i>Water Research</i> , 2010 , 44, 1607-15	12.5	30
29	High-performance liquid chromatographic method with amperometric detection employing boron-doped diamond electrode for the determination of sildenafil, vardenafil and their main metabolites in plasma. <i>Journal of Chromatography A</i> , 2011 , 1218, 7996-8001	4.5	20
28	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
27	Simultaneous Determination of Pregabalin, Sildenafil and Its Active Metabolite in Rat Plasma Utilising SPE Followed by LC/MS/MS. <i>Chromatographia</i> , 2011 , 73, 1177-1182	2.1	8
26	Development and validation of a gas chromatography-mass spectrometric method for the determination of sildenafil and desmethyl-sildenafil in whole blood. <i>Journal of Separation Science</i> , 2011 , 34, 3037-42	3.4	15
25	Mini Review: Determination of Sildenafil Citrate in Pharmaceutical Preparations. <i>Analytical Letters</i> , 2011 , 44, 2085-2093	2.2	4
24	Dissociation Enthalpies and Thermodynamic Constants of Sildenafil Citrate by the Regression of Multiwavelength pH-spectrophotometric Titration Data. <i>Journal of Solution Chemistry</i> , 2012 , 41, 2123-2137	1.8	18
23	Validated UPLC-MS/MS assay for the determination of synthetic phosphodiesterase type-5 inhibitors in postmortem blood samples. <i>Journal of Clinical Forensic and Legal Medicine</i> , 2013 , 20, 655-8	1.7	12

22	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
21	New HPLC method to detect amitriptyline in the blood of rats on combination treatment. <i>International Journal of Chemical and Analytical Science</i> , 2013 , 4, 120-124		7
20	Sildenafil is not a useful modulator of ABCB1 and ABCG2 mediated drug resistance in vivo. <i>European Journal of Cancer</i> , 2013 , 49, 2059-64	7.5	14
19	Concentration-dependent Sildenafil citrate (Viagra) effects on ROS production, energy status, and human sperm function. <i>Systems Biology in Reproductive Medicine</i> , 2014 , 60, 72-9	2.9	16
18	Simultaneous determination of sildenafil citrate and some nitric oxide releasing drugs in human plasma using UPLC MS/MS. <i>Clinical Biochemistry</i> , 2014 , 47, 654-6	3.5	5
17	Simultaneous microdetermination of bosentan, ambrisentan, sildenafil, and tadalafil in plasma using liquid chromatography/tandem mass spectrometry for pediatric patients with pulmonary arterial hypertension. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014 , 89, 227-32	3.5	32
16	Contribution of CYP3A isoforms to dealkylation of PDE5 inhibitors: a comparison between sildenafil N-demethylation and tadalafil demethylation. <i>Biological and Pharmaceutical Bulletin</i> , 2015 , 38, 58-65	2.3	13
15	Sensitive and precise HPLC method with back-extraction clean-up step for the determination of sildenafil in rat plasma and its application to a pharmacokinetic study. <i>Biomedical Chromatography</i> , 2015 , 29, 1559-66	1.7	10
14	Development and validation of an ultra performance liquid chromatography tandem mass method for sildenafil and N-desmethyl sildenafil plasma determination and quantification. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 1001, 35-40	3.2	12
13	Electrochemical and Hyphenated Electrochemical Detectors in Liquid Chromatography and Flow Injection Systems for Drug Compound Analysis. <i>Monographs in Electrochemistry</i> , 2015 , 187-233	0.8	
12	Population pharmacokinetics and inter-laboratory variability of sildenafil and its metabolite after oral administration in Korean healthy male volunteers. <i>Translational and Clinical Pharmacology</i> , 2016 , 24, 105	2	1
11	Reverse-phase high-performance liquid chromatography for the simultaneous determination of sildenafil and N-desmethyl sildenafil in plasma of children. <i>Biomedical Chromatography</i> , 2016 , 30, 2070-2073	1.7	5
10	Electrochemical determination of sildenafil citrate as standard, in tablets and spiked with human serum at gold and cystein modified gold electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 782, 103-107	4.1	6
9	Sensitive and rapid HPLC-UV method with back-extraction step for the determination of sildenafil in human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016 , 1009-1010, 1-6	3.2	13
8	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
7	Novel synthesis of nanocomposite for the extraction of Sildenafil Citrate (Viagra) from water and urine samples: Process screening and optimization. <i>Ultrasonics Sonochemistry</i> , 2017 , 38, 463-472	8.9	76
6	Effect of sildenafil on human aromatase activity: From in vitro structural analysis to catalysis and inhibition in cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017 , 165, 438-447	5.1	8
5	A sensitive and selective analytical method for the simultaneous determination of sildenafil and tadalafil in water, energy drinks and sewage sludge matrices by LC-QTOF-MS/MS. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 124, 64-71	4.6	3

4	An acute oral administration of Sildenafil in asthenozoospermic patients improves sperm motility after density gradient centrifugation. <i>Jornal Brasileiro De Reproducao Assistida</i> , 2021 , 25, 390-393	1.7	
3	Phosphodiesterase-5 Inhibitors in Cardioprotection. 2013 , 439-458		
2	Investigation of the Presence of Sildenafil in Herbal Dietary Supplements by Validated HPLC Method. <i>Turkish Journal of Pharmaceutical Sciences</i> , 2020 , 17, 56-62	1.1	1
1	Pharmacokinetic profile of sildenafil citrate in healthy Middle Eastern Males: Comparison with other ethnicities.. <i>Saudi Pharmaceutical Journal</i> , 2021 , 29, 1498-1505	4.4	0