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Development of a fast method for direct analysis of intact synthetic insulins in human plasma: the large peptide challenge

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#	Paper	IF	Citations
55	High sensitivity LC-MS/MS method for direct quantification of human parathyroid 1-34 (teriparatide) in human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013 , 938, 96-104	3.2	24
54	Bioanalytical LC-MS/MS of protein-based biopharmaceuticals. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013 , 929, 161-79	3.2	177
53	Advances in the quantitation of therapeutic insulin analogues by LC-MS/MS. <i>Bioanalysis</i> , 2013 , 5, 2933-46.1	4.1	29
52	Bioanalysis annual round-up: the bioanalysis editorial team is delighted to welcome you to this mid-year round-up. <i>Bioanalysis</i> , 2013 , 5, 2227-31	2.1	
51	Comparison of various silica-based monoliths for the analysis of large biomolecules. <i>Journal of Separation Science</i> , 2013 , 36, 2231-43	3.4	10
50	Direct comparison of radioimmunoassay and LC-MS/MS for PK assessment of insulin glargine in clinical development. <i>Bioanalysis</i> , 2014 , 6, 3311-23	2.1	9
49	Eliminating Bottlenecks for Efficient Bioanalysis: Practices and Applications in Drug Discovery and Development. 2014 ,		1
48	Orthogonal tools to help determine the required selectivity of ligand-binding assays in drug development. <i>Bioanalysis</i> , 2014 , 6, 1037-40	2.1	2
47	MS-based protein quantitation in regulated drug development. 2014 , 216-230		
46	Simultaneous quantitation and size characterization of apolipoprotein(a) by ultra-performance liquid chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1101-6	3.2	38
45	Multidimensional LC-MS/MS enables simultaneous quantification of intact human insulin and five recombinant analogs in human plasma. <i>Analytical Chemistry</i> , 2014 , 86, 694-702	7.8	70
44	Improved sensitivity of the nano ultra-high performance liquid chromatography-tandem mass spectrometric analysis of low-concentrated neuropeptides by reducing aspecific adsorption and optimizing the injection solvent. <i>Journal of Chromatography A</i> , 2014 , 1360, 217-28	4.5	34
43	Strategies to reduce aspecific adsorption of peptides and proteins in liquid chromatography-mass spectrometry based bioanalyses: an overview. <i>Journal of Chromatography A</i> , 2014 , 1358, 1-13	4.5	55
42	Advances in peptide hormone detection. 2015 , 60-77		
41	Is isolation of comprehensive human plasma peptidomes an achievable quest?. <i>Journal of Proteomics</i> , 2015 , 127, 300-9	3.9	24
40	Simultaneous determination of gonadotropin-inhibitory and gonadotropin-releasing hormones using ultra-high performance liquid chromatography electrospray ionization tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 497-507	4.4	4
39	An ultrasensitive nano UHPLC-ESI-MS/MS method for the quantification of three neuromedin-like peptides in microdialysates. <i>Bioanalysis</i> , 2015 , 7, 605-19	2.1	13

38	Practical applications of integrated microfluidics for peptide quantification. <i>Bioanalysis</i> , 2015 , 7, 857-67	2.1	9
37	Toward greener analytical techniques for the absolute quantification of peptides in pharmaceutical and biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 113, 181-8	3.5	13
36	Current trends in mass spectrometry of peptides and proteins: Application to veterinary and sports-doping control. <i>Mass Spectrometry Reviews</i> , 2015 , 34, 571-94	11	39
35	Liquid chromatography tandem mass spectrometry in the clinical laboratory. <i>Annals of Clinical Biochemistry</i> , 2015 , 52, 18-38	2.2	58
34	Potential of hydrophilic interaction chromatography for the analytical characterization of protein biopharmaceuticals. <i>Journal of Chromatography A</i> , 2016 , 1448, 81-92	4.5	66
33	Evaluation of water-soluble DBS for small proteins: a conceptual study using insulin as a model analyte. <i>Bioanalysis</i> , 2016 , 8, 1051-65	2.1	11
32	A simple dilute and shoot methodology for the identification and quantification of illegal insulin. <i>Journal of Pharmaceutical Analysis</i> , 2016 , 6, 326-334	14	16
31	Chemical derivatization of neurosteroids for their trace determination in sea lamprey by UPLC-MS/MS. <i>Talanta</i> , 2016 , 149, 326-334	6.2	9
30	A high-throughput mass spectrometry assay to simultaneously measure intact insulin and C-peptide. <i>Clinica Chimica Acta</i> , 2016 , 455, 202-8	6.2	29
29	Analytical Strategies for Doping Control Purposes: Needs, Challenges, and Perspectives. <i>Analytical Chemistry</i> , 2016 , 88, 508-23	7.8	31
28	Insulin glargine and its two active metabolites: A sensitive (16pM) and robust simultaneous hybrid assay coupling immunoaffinity purification with LC-MS/MS to support biosimilar clinical studies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1063, 50-59	3.2	14
27	Targeted Quantification of Peptide Biomarkers. 2017 , 211-225		
26	Utilizing ELISA-plate based immunopurification and liquid chromatography-tandem mass spectrometry for the urinary detection of short- and long acting human insulin analogues. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 153, 76-81	3.5	15
25	Determination of human insulin in dog plasma by a selective liquid chromatography-tandem mass spectrometry method: Application to a pharmacokinetic study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1077-1078, 85-91	3.2	4
24	Insulin Concentration in Vials Randomly Purchased in Pharmacies in the United States: Considerable Loss in the Cold Supply Chain. <i>Journal of Diabetes Science and Technology</i> , 2018 , 12, 839-841	4.1	21
23	Detection and confirmation of Ebozatoxin in equine plasma by solid-phase extraction and liquid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1533, 38-48	4.5	5
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17	Liquid chromatography-tandem mass spectrometry based method development and validation of S016-1271 (LR8P), a novel cationic antimicrobial peptide for its application to pharmacokinetic studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 169, 116-126	3.5	2
16	Micro-solid phase extraction and LC-MS for the determination of triptorelin in rat plasma and application to a pharmacokinetic study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 166, 13-19	3.5	7
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14	Development of an UPLC/MS-MS method for quantification of intact IGF-I from human serum. <i>Bioanalysis</i> , 2020 , 12, 53-65	2.1	5
13	Intact Protein Mass Spectrometry for Therapeutic Protein Quantitation, Pharmacokinetics, and Biotransformation in Preclinical and Clinical Studies: An Industry Perspective. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1886-1900	3.5	9
12	Is insulin intoxication still the perfect crime? Analysis and interpretation of postmortem insulin: review and perspectives in forensic toxicology. <i>Critical Reviews in Toxicology</i> , 2020 , 50, 324-347	5.7	5
11	Matrix-assisted ionization mass spectrometry in targeted protein analysis - An initial evaluation. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35 Suppl 1, e8437	2.2	5
10	Detection of intact insulin analogues in post-mortem vitreous humour-Application to forensic toxicology casework. <i>Drug Testing and Analysis</i> , 2021 , 13, 604-613	3.5	2
9	Development and validation of a method for quantification of human insulin and its synthetic analogues in plasma and post-mortem sera by LC-MS/HRMS. <i>Talanta</i> , 2021 , 225, 122047	6.2	5
8	Development and Validation of an LC-MS/MS Based Quantitative Assay for Marmoset Insulin.		
7	Development and validation of an LC-MS/MS based quantitative assay for marmoset insulin in serum.. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2022 , 1195, 123150	3.2	
6	Simultaneous quantitative determination of Insulin Aspart and Insulin Degludec in human plasma using simple shoot liquid chromatography method. <i>Biomedical Chromatography</i> , 2021 , e5292	1.7	1
5	Influence of insulin collection preservatives in postmortem blood: application to a case of insulin aspart suicide.		0
4	Solid phase extraction as sample pretreatment method for top-down quantitative analysis of low molecular weight proteins from biological samples using liquid chromatography triple quadrupole mass spectrometry. 2023 , 1243, 340801		1
3	Improving the LC-MS/MS analysis of neuromedin U-8 and neuromedin S by minimizing their adsorption behavior and optimizing UHPLC and MS parameters. 2023 , 228, 115306		0

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1	Comparison of pharmacokinetic study profiles of insulin in rat plasma through conventional sampling and microsampling by micro-LCMS/MS.	o