Title – 2013 publications to date: 22 2012 Publications: 21 2011 Publications: 14	Author	Journal
A fast and feasible microextraction by packed sorbent (MEPS) procedure for HPLC analysis of the atypical antipsychotic ziprasidone in human plasma.	Mercolini et al	J. Pharm. Biomed Anal. **2013** 88C: 467-471
A new and fast methodology to assess oxidative damage in cardiovascular diseases risk development through eVol-MEPS-UHPLC analysis of four urinary biomarkers	Mendes et al	Talanta **2013** 15:116:164-172
Combined microextraction by packed sorbent and high-performance liquid chromatography-ultraviolet detection for rapid analysis of ractopamine in porcine muscle and urine samples	Du et al	Food Chem **2014**: 145:789-795
How to address the sample preparation of hydrophilic compounds: Determination of entecavir in plasma and plasma ultrafiltrate with novel extraction sorbents	Vickova et al	J. Pharm Biomed Anal **2013** 88C:337-344
Assessing stir bar sorptive extraction and microextraction by packed sorbent for determination of selective serotonin reuptake inhibitor antidepressants in plasma sample by non-aqueous capillary electrophoresis	Catai et al	J Brazilian Chem Soc **2013** Vol 24: 1635-1641
Fast, simultaneous quantification of three novel cardiac drugs in human urine by MEPS-UHPLC-MS/MS for therapeutic drug monitoring.	Magiera	J Chromatogr B Analyt Technol Biomed Life Sci. **2013** Nov 1;938C:86-95.
Microextraction by Packed Sorbent-High-Pressure Liquid Chromatographic-Ultra Violet Analysis of Endocrine Disruptor Pesticides in Various Matrices.	Kaur et al	J Chromatogr Sci. 2013 Sep 17.
Microextraction by packed sorbents combined with surface-enhanced Raman spectroscopy for determination of musk ketone in river water.	Caballero-Díaz et al	Anal Bioanal Chem. **2013** Sep;405(23):7251-7
Application of statistical experimental design to the optimisation of microextraction by packed sorbent for the analysis of nonsteroidal anti-inflammatory drugs in human urine by ultra-high pressure liquid chromatography.	Magiera et al	J Chromatogr A. **2013** Aug 23;1304:1-9.
A semi-automatic microextraction in packed sorbent, using a digitally controlled syringe, combined with ultra-high pressure liquid chromatography as a new and ultra-fast approach for the determination of prenylflavonoids in beers.	Gonçalves et al	J Chromatogr A. **2013** Aug 23;1304:42-51.
Determination of chlorobenzenes in water samples based on fully automated microextraction by packed sorbent coupled with programmed temperature vaporization-gas chromatography-mass spectrometry.	Grueiro Noche et al	Anal Bioanal Chem. **2013** Aug;405(21):6739-48
In situ derivatization coupled to microextraction by packed sorbent and gas chromatography for the automated determination of haloacetic acids in chlorinated water	Ferreira et al	J Chrom A **2013** Vol 1318: 35-42
Microextraction using packed sorbent as an effective and high-throughput sample extraction technique: recent applications and future trends	Pereira et al	Sample Preparation. Sampre 2013: 38-53
Screening and determination of drugs in human saliva utilizing microextraction by packed sorbent and liquid chromatography-tandem mass spectrometry.	Abdel-Rehim	Biomed Chromatogr. **2013** Sep;27(9):1188-91.
Determination of polycyclic and nitro musks in environmental water samples by means of microextraction by packed sorbents coupled to large volume injection-gas chromatography–mass spectrometry analysis	Cavalheiro et al.	Anal Chim Acta. **2013** 773 :68-75

Analysis of Salvinorin A in urine using microextraction in packed syringe and GC-MS/MS.	Moreno et al.	Bioanalysis. **2013**; 5(6):661-8
A Micro-Extraction Technique Using a New Digitally Controlled Syringe Combined with UHPLC for Assessment of Urinary Biomarkers of Oxidatively Damaged DNA.	Mendes et al.	PLoS One. **2013**;8(3):e58366
Determination of seven selected antipsychotic drugs in human plasma using microextraction in packed sorbent and gas chromatography-tandem mass spectrometry	da Fonseca et al	Anal Bioanal Chem. **2013** Jan 12
First liquid chromatographic method for the simultaneous determination of amiodarone and desethylamiodarone in human plasma using microextraction by packed sorbent (MEPS) as sample preparation procedure.	Rodriques et al.	J Chromatogr B Analyt Technol Biomed Life Sci. **2013** Jan 15;913-914
A new approach for antibiotic drugs determination in human plasma by liquid chromatography–mass spectrometry	Szultka et al.	Journal of Chromatography A 1272, 11 January **2013**, Pages 41–49
Microextraction by packed sorbent and liquid chromatography–tandem mass spectrometry as a tool for quantification of peptides in plasma samples: determination of sensory neuron-specific receptors agonist BAM8-22 and antagonist BAM22-8 in plasma samples	Ashri. et al.	Biomedical Chromatography Volume 27, Issue 3, pages 396–403, March **2013**
An attractive, sensitive and high-throughput strategy based on microextraction by packed sorbent followed by UHPLC-PDA analysis for quantification of hydroxybenzoic and hydroxycinnamic acids in wines	Gonçalves et al.	Microchemical Journal Volume 106, January **2013**, 129–138
Microextraction in Packed Sorbent for the Determination of Pesticides in Honey Samples by Gas Chromatography Coupled to Mass Spectrometry.	Salami and Queiroz	J Chromatogr Sci. **2012** Nov 28.
Analytical approach to determine biogenic amines in urine using microextraction in packed syringe and liquid chromatography coupled to electrochemical detection.	Oppolzer D et al	Biomed Chromatogr. **2012** Nov 5.
Fully automated determination of macrocyclic musk fragrances in wastewater by microextraction by packed sorbents and large volume injection gas chromatography-mass spectrometry.	Vallecillos L, Pocurull E, Borrull F.	J Chromatogr A. **2012** Nov 16;1264:87-94. doi: 10.1016/j.chroma.2012.09.049. Epub 2012 Sep 26.
Development of a mathematical model for online microextraction by packed sorbent under equilibrium conditions and its application for polycyclic aromatic hydrocarbon determination in water by gas chromatography-mass spectrometry.	Quinto et al.	J Chromatogr A. **2012** Nov 2;1262:19-26
A simplified approach to direct SPE-MS	Candish et al.	J Sep Sci. **2012** Sep;35(18):2399-406
A novel microextraction by packed sorbent–gas chromatography procedure for the simultaneous analysis of antiepileptic drugs in human plasma and urine	Rani and Malik	J. Sep. Sci. **2012**, 00, 1–8
A method based on microextraction by packed sorbent-programmed temperature vaporizer-fast gas chromatography-mass spectrometry for the determination of aromatic amines in environmental water samples.	Sánchez et al,	Anal Bioanal Chem. **2012** Aug 11
A sensitive microextraction by packed sorbent-based methodology combined with ultra-high pressure liquid chromatography as a powerful technique for analysis of biologically active flavonols in wines.	Silva, Goncalves and Camara	Anal Chim Acta. **2012** Aug 20;739:89-98.
Microextraction by packed sorbent (MEPS) as a suitable selective method for l-ascorbic acid	Adam et al.	Food Chem. **2012** Dec 1;135(3):1613-8

determination in beverages.		
A novel test using dried blood spots for the chromatographic assay of methadone.	Saracino et al.	Anal Bioanal Chem. **2012** Aug;404(2):503-11
Coupling of microextraction by packed sorbents with gas chromatography with ionic liquid stationary phases for the determination of haloanisoles in wines.	Pinto et al.	J Chromatogr A. **2012** Aug 29.
Determination of polycyclic aromatic hydrocarbons in water samples using online microextraction by packed sorbent coupled with gas chromatography-mass spectrometry.	Fu et al.	Talanta. **2012** May 30;94:152-7.
Determination of four immunosuppressive drugs in whole blood using MEPS and LC-MS/MS allowing automated sample work-up and analysis.	Said et al.	J Chromatogr B Analyt Technol Biomed Life Sci. **2012** May 15;897:42-9
Determination of pravastatin and pravastatin lactone in rat plasma and urine using UHPLC-MS/MS and microextraction by packed sorbent.	Vlčková et al	Talanta. **2012** Feb 15;90:22-9.
Gas chromatography coupled to mass spectrometry-based metabolomic to screen for anabolic practices in cattle: identification of 5α-androst-2-en-17-one as new biomarker of 4-androstenedione misuse.	Anizan et al.	J Mass Spectrom. **2012** Jan;47(1):131-40.
Development of a novel microextraction by packed sorbent-based approach followed by ultrahigh pressure liquid chromatography as a powerful technique for quantification phenolic constituents of biological interest in wines.	Gonçalves et al.	J Chromatogr A. **2012** Mar 16;1229:13-23.
Effectiveness of high-throughput miniaturized sorbent- and solid phase microextraction techniques combined with gas chromatography-mass spectrometry analysis for a rapid screening of volatile and semi-volatile composition of wines--a comparative study.	Mendes B et al	Talanta. **2012** Jan 15;88:79-94.
Rapid screening of drug compounds in urine using a combination of microextraction by packed sorbent and rotating micropillar array electrospray ionization mass spectrometry.	Nielsen et al.	Rapid Commun Mass Spectrom. **2012** Feb 15;26(3):297-303
Rapid determination of piperazine-type stimulants in human urine by microextraction in packed sorbent after method optimization using a multivariate approach.	Moreno IE, et al	J Chromatogr A. **2012** Jan 27;1222:116-20. Epub 2011 Dec 13.
Novel micro-extraction by packed sorbent procedure for the liquid chromatographic analysis of antiepileptic drugs in human plasma and urine	Rani, Malik and Singh	J. Sep. Sci. **2012**, 35, 359-366
An automated method for the analysis of phenolic acids in plasma based on ion-pairing micro-extraction coupled on-line to gas chromatography/mass spectrometry with in-liner derivatisation	Peters et al	J Chromatogr A. **2012** Feb 24;1226:71-6
Determination of piperazine-type stimulants in human urine by means of microextraction in packed sorbent and high performance liquid chromatography-diode array detection.	Moreno IE, et al	J Pharm Biomed Anal. **2011** Dec 13.
Microextraction by packed sorbent for the analysis of pharmaceutical residues in environmental water samples by in situ derivatization-programmed temperature vaporizer-gas chromatography-mass spectrometry.	Noche GG, et al	J Chromatogr A. **2011** Dec 30;1218(52):9390-6..
Content of melatonin and other antioxidants in grape-related foodstuffs: measurement using a MEPS-HPLC-F method.	Mercolini L, Mandrioli R, Raggi	J Pineal Res. **2011** Sep 14.

	MA.	
Application of microextraction by packed sorbent to isolation of psychotropic drugs from human serum	Wietecha-Posłuszny R, et al	Anal Bioanal Chem. **2011** Oct 16
Determination of steroid hormones in biological and environmental samples using green microextraction techniques: An overview.	Aufartova et al	Anal Chim Acta. **2011** 17;704:33-46
Novel strategies for sample preparation in forensic toxicology	Samanidou et al	Bioanalysis **2011**; 3(17): 2019-46
Selective determination of estrogenic compounds in water by microextraction by packed sorbent and a molecularly imprinted polymer coupled with large volume injection-in-port derivatisation GCMS http://www.ncbi.nlm.nih.gov/pubmed/21843673	Prieto et al	Anal Chim Acta. **2011** 703:41-51
Combined liquid chromatography–coulometric detection and microextraction by packed sorbent for the plasma analysis of long acting opioids in heroin addicted patients. http://www.ncbi.nlm.nih.gov/pubmed/21839210	Somain et al,	Anal Chim Acta **2011** 702 280– 287
New method for determination of (E)-resveratrol in wine based on microextraction using packed sorbent and ultra performance liquid chromatography	Goncalves and Camara	J Sep Sci. **2011** 34(18):2376-84
Rapid assays of clozapine and its metabolites in dried blood spots by liquid chromatography and microextraction by packed sorbent procedure. http://www.ncbi.nlm.nih.gov/pubmed/21397237	Saracino et al,	J Chromatogr A. **2011** 22; 1218(16):2153-9.
Microextraction by packed sorbent as sample preparation step for atorvastatin and its metabolites in biological samples-Critical evaluation. http://www.ncbi.nlm.nih.gov/pubmed/21334841	Vlčková et al	J Pharm Biomed Anal. **2011** Jan 28.
Screening of non-polar heterocyclic amines in urine by microextraction in packed sorbent-fluorimetric detection and confirmation by capillary liquid chromatography. http://www.ncbi.nlm.nih.gov/pubmed/21238752	De Andrés et al	Talanta. **2011** 15 ;83(5):1562-7.
Synthesis of a molecularly imprinted polymer and its application for microextraction by packed sorbent for the determination of fluoroquinolone related compounds in water. http://www.ncbi.nlm.nih.gov/pubmed/21168563	Prieto et al	Anal Chim Acta. **2011** 31;685(2):146-52.
Fully automated determination of parabens, triclosan and methyl triclosan in wastewater by microextraction by packed sorbents and gas chromatography-mass spectrometry. http://www.ncbi.nlm.nih.gov/pubmed/21167985	González-Mariño et al	Anal Chim Acta. **2011** 17;684(1-2):50-7.
Microextraction in packed sorbent for analysis of antidepressants in human plasma by liquid chromatography and spectrophotometric detection. http://www.ncbi.nlm.nih.gov/pubmed/20630812	Chaves et al	J Chromatogr B Analyt Technol Biomed Life Sci. 2010 1;878(23):2123-9.
A new reliable sample preparation for high throughput focused steroid profiling by gas chromatography–mass spectrometry http://www.ncbi.nlm.nih.gov/pubmed/20537338	Anizan *et al*	J Chrom A, **2010**, 1217: 6652-6660

Determination of organic priority pollutants and emerging compounds in wastewater and snow samples using multiresidue protocols on the basis of microextraction by packed sorbents coupled to large volume injection gas chromatography-mass spectrometry analysis. http://www.ncbi.nlm.nih.gov/pubmed/20719318	Prieto *et al*	J Chrom A, **2010**, 1217: 6002-6011
Liquid chromatographic analysis of oxcarbazepine and its metabolites in plasma and saliva after a novel microextraction by packed sorbent procedure. http://www.ncbi.nlm.nih.gov/pubmed/20113739	Saracino *et al*	Anal Chim Acta, **2010**, 661: 222-228
At-line microextraction by packed sorbent-gas chromatography–mass spectrometry for the determination of UV filter and polycyclic musk compounds in water samples. http://www.ncbi.nlm.nih.gov/pubmed/20334867	Moeder *et al*	J Chrom A, **2010**, 1217:2925-2932
Analysis of risperidone and its metabolite in plasma and saliva by LC with coulometric detection and a novel MEPS procedure http://www.ncbi.nlm.nih.gov/pubmed/20441937	Saracino et al	Talanta **2010**, 81:1547-53
Contribution of microextraction in packed sorbent for the analysis of cotinine in human urine by GC–MS. http://www.ncbi.nlm.nih.gov/pubmed/19865813	Lafay *et al*	Anal Bioanal Chem, **2010**, 396: 937–941
Recent advances in microextraction by packed sorbent for bioanalysis. http://www.ncbi.nlm.nih.gov/pubmed/19811788	Abdel-Rehim	J Chrom A, **2010**, 1217: 2569-2580
Rapid identification and quantification of methamphetamine and amphetamine in hair by gas chromatography/mass spectrometry coupled with micropulverized extraction, aqueous acetylation and microextraction by packed sorbent. http://www.ncbi.nlm.nih.gov/pubmed/19286186	Miyaguchi *et al*	J. Chrom A, **2009**, 1216: 4063–4070

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