

# SCIEX临床检测项目发表文章目录 (第四卷)



# 主要内容

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## 胆汁酸类

1. Simultaneous characterization of bile acids and their sulfate metabolites in mouse liver, plasma, bile, and urine using LC-MS/MS. *Journal of pharmaceutical and biomedical analysis*.
2. Rapid quantification of bile acids and their conjugates in serum by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
3. Analysis of bile acids profile in human serum by ultrafiltration clean-up and LC-MS/MS. *Chromatographia*.
4. High-performance liquid chromatography-tandem mass spectrometry for the analysis of bile acid profiles in serum of women with intrahepatic cholestasis of pregnancy. *Journal of Chromatography B*.
5. Measurement of serum 7  $\alpha$ -hydroxy-4-cholesten-3-one (or 7  $\alpha$  C4), a surrogate test for bile acid malabsorption in health, ileal disease and irritable bowel syndrome using liquid chromatography-tandem mass spectrometry. *Neurogastroenterology & Motility*.
6. Simultaneous determination of geniposide, baicalin, cholic acid and hydoxycholic acid in rat serum for the pharmacokinetic investigations by high performance liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
7. Rapid analysis of bile acids in different biological matrices using LC-ESI-MS/MS for the investigation of bile acid transformation by mammalian gut bacteria. *Analytical and bioanalytical chemistry*.
8. High performance liquid chromatography-tandem mass spectrometry for the determination of bile acid concentrations in human plasma. *Journal of Chromatography B*.

9. Bile acid metabolome after an oral lipid tolerance test by liquid chromatography-tandem mass spectrometry (LC-MS/MS). PloS one.
10. Quantitative targeted bile acid profiling as new markers for DILI in a model of methapyrilene-induced liver injury in rats. Toxicology.
11. Analysis of metabolome changes in the bile acid pool in feces and plasma of antibiotic-treated rats. Toxicology and applied pharmacology.
12. Determination of Bile Acids in Piglet Bile by Solid Phase Extraction and Liquid Chromatography - Electrospray Tandem Mass Spectrometry. Lipids.
13. The profile of bile acids and their sulfate metabolites in human urine and serum. Journal of Chromatography B.
14. Profiling of urinary bile acids in piglets by a combination of enzymatic deconjugation and targeted LC-MRM-MS. Journal of lipid research.
15. Species differences in bile acids II. Bile acid metabolism. Journal of Applied Toxicology.

## 氨基酸类

1. High-throughput quantitation of amino acids in rat and mouse biological matrices using stable isotope labeling and UPLC-MS/MS analysis. *Journal of Chromatography B*.
2. Simultaneous bioanalysis of l-arginine, l-citrulline, and dimethylarginines by LC-MS/MS. *Journal of Chromatography B*.
3. Determination of 20 underivatized proteinic amino acids by ion-pairing chromatography and pneumatically assisted electrospray mass spectrometry. *Journal of Chromatography A*.
4. LC - MS/MS identification of the one - carbon cycle metabolites in human plasma. *Electrophoresis*.
5. Highly sensitive and positively charged precolumn derivatization reagent for amines and amino acids in liquid chromatography/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
6. Isotope dilution liquid chromatography-tandem mass spectrometry for quantitative amino acid analysis. *Amino Acid Analysis*.
7. Amino acid profiles in human tear fluids analyzed by high-performance liquid chromatography and electrospray ionization tandem mass spectrometry. *American journal of ophthalmology*.
8. Comparison of different amino acid derivatives and analysis of rat brain microdialysates by liquid chromatography tandem mass spectrometry. *Analytica chimica acta*.
9. Validated quantitation of underivatized amino acids in human blood samples by volatile ion-pair reversed-phase liquid chromatography coupled to isotope dilution tandem mass spectrometry. *Analytical chemistry*.

10. Analysis of free amino acids in *Russula griseocarnosa* harvested at different stages of maturity using iTRAQ®-LC-MS/MS. Food analytical methods.
11. Amino acid metabolomics using LC-MS/MS: assessment of cancer-cell resistance in a simulated tumor microenvironment. Analytical Sciences.
12. Precolumn derivatization reagents for high - speed analysis of amines and amino acids in biological fluid using liquid chromatography/electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
13. Detection of 28 neurotransmitters and related compounds in biological fluids by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
14. Development of a method for the analysis of underivatized amino acids by liquid chromatography/tandem mass spectrometry: application on Standard Reference Material 1649a (urban dust). Talanta.
15. Quantitative determination of sarcosine and related compounds in urinary samples by liquid chromatography with tandem mass spectrometry. Analytical chemistry.

## 蛋白多肽类

1. Evaluation of peptide adsorption-controlled liquid chromatography–tandem mass spectrometric (PAC-LC–MS/MS) method for simple and simultaneous quantitation of amyloid  $\beta$  1–38, 1–40, 1–42 and 1–43 peptides in dog cerebrospinal fluid. *Journal of Chromatography B*.
2. An UHPLC–MS/MS method for simultaneous quantification of human amyloid beta peptides A  $\beta$  1-38, A  $\beta$  1-40 and A  $\beta$  1-42 in cerebrospinal fluid using micro-elution solid phase extraction. *Journal of Chromatography B*.
3. Quantification of the bombesin/gastrin releasing peptide antagonist RC-3095 by liquid chromatography–tandem mass spectrometry. *Journal of Chromatography B*.
4. An LC–MS/MS assay to determine plasma pharmacokinetics of cyclic thymic hexapeptide (cTP6) in rhesus monkeys. *Journal of Chromatography B*.
5. Label-free Quantitative Analysis of One-dimensional PAGE LC/MS/MS Proteome Application on Angiotensin II-Stimulated Smooth Muscle Cells Secretome. *Molecular & Cellular Proteomics*.
6. Novel angiotensin I-converting enzyme inhibitory peptides derived from edible mushroom *Agaricus bisporus* (JE Lange) Imbach identified by LC–MS/MS. *Food chemistry*.
7. LC-MS/MS quantification of bioactive angiotensin I-converting enzyme inhibitory peptides in rye malt sourdoughs. *Journal of agricultural and food chemistry*.
8. Novel angiotensin I-converting enzyme inhibitory peptides derived from an edible mushroom, *Pleurotus cystidiosus* OK Miller identified by LC-MS/MS. *BMC complementary and alternative medicine*.

9. Albumin binding as a general strategy for improving the pharmacokinetics of proteins. *Journal of Biological Chemistry*.
10. Quantification of urinary albumin by using protein cleavage and LC-MS/MS. *Clinical chemistry*.
11. A novel and cost effective method of removing excess albumin from plasma/serum samples and its impacts on LC-MS/MS bioanalysis of therapeutic proteins. *Analytical chemistry*.
12. Quantification of seven apolipoproteins in human plasma by proteotypic peptides using fast LC - MS/MS. *Proteomics–Clinical Applications*.
13. Quantification of sphingosine 1-phosphate by validated LC-MS/MS method revealing strong correlation with apolipoprotein M in plasma but not in serum due to platelet activation during blood coagulation. *Analytical and bioanalytical chemistry*.
14. On-column trypsin digestion coupled with LC-MS/MS for quantification of apolipoproteins. *Journal of proteomics*.
15. The application of ultra\_performance liquid chromatography/tandem mass spectrometry to the detection and quantitation of apolipoproteins in human serum. *Rapid Communications in Mass Spectrometry*.
16. Simultaneous quantification of apolipoprotein A-I and apolipoprotein B by liquid chromatography–multiple reaction monitoring mass spectrometry. *Clinical chemistry*.
17. Quantification of C-reactive protein in the serum of patients with rheumatoid arthritis using multiple reaction monitoring mass spectrometry and <sup>13</sup>C - labeled peptide standards. *Proteomics*.
18. Expression and characterization of <sup>15</sup>N-labeled human C-reactive protein in *Escherichia coli* and *Pichia pastoris* for use in isotope-dilution mass spectrometry. *Protein expression and purification*.



19. Reference measurement procedure development for C-reactive protein in human serum. *Analytical chemistry*.
20. High-throughput ultra-high-performance liquid chromatography/ tandem mass spectrometry quantitation of insulin-like growth factor\_I and leucine-rich  $\alpha$ -2-glycoprotein in serum as biomarkers of recombinant human growth hormone administration. *Rapid Communications in Mass Spectrometry*.
21. Clinical quantitation of prostate-specific antigen biomarker in the low nanogram/milliliter range by conventional bore liquid chromatography-tandem mass spectrometry (multiple reaction monitoring) coupling and correlation with ELISA tests. *Molecular & Cellular Proteomics*.
22. Hydrophilic interaction liquid chromatography as second dimension in multi-dimensional chromatography with an anionic trapping strategy: application to prostate-specific antigen quantification. *Journal of Chromatography A*.
23. Application of DBS for quantitative assessment of the peptide Exendin-4; comparison of plasma and DBS method by UHPLC-MS/MS. *Bioanalysis*.
24. Differential mobility spectrometry tandem mass spectrometry with multiple ion monitoring for the bioanalysis of liraglutide. *Analytical and bioanalytical chemistry*.

## 其他类

1. Determination of glyceamic monitoring marker 1, 5-anhydroglucitol in plasma by liquid chromatography-electrospray tandem mass spectrometry. Journal of Chromatography B.
2. Longitudinal changes in total body creatine pool size and skeletal muscle mass using the D3-creatine dilution method. Journal of cachexia, sarcopenia and muscle.
3. LC-MS-MS measurements of urinary creatinine and the application of creatinine normalization technique on cotinine in smokers' 24 hour urine. Journal of analytical methods in chemistry.
4. Determination of Guanidinoacetate and Creatine in Urine and Plasma by Liquid Chromatography-Tandem Mass Spectrometry. Clinical chemistry.
5. Simultaneous determination of creatine and guanidinoacetate in plasma by liquid chromatography-tandem mass spectrometry (LC-MS/MS). Journal of pharmaceutical and biomedical analysis.
6. A clinical biomarker assay for the quantification of d3-creatinine and creatinine using LC-MS/MS. Bioanalysis.
7. Quantitative determination of guanidinoacetate and creatine in dried blood spot by flow injection analysis-electrospray tandem mass spectrometry. Clinica chimica acta.

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RUO-MKT-02-10276-ZH-A

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