

# SCIEX临床检测项目发表文章目录 (第三卷)



# 主要内容

## SCIEX 临床检测项目发表文章目录 (第三卷)

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## 脂溶性维生素

1. A sensitive LC/MS/MS assay of 25OH vitamin D3 and 25OH vitamin D2 in dried blood spots. *Clinica Chimica Acta*.
2. Misleading measures in Vitamin D analysis: a novel LC-MS/MS assay to account for epimers and isobars. *Nutrition journal*.
3. Development of a sensitive LC-MS/MS method for vitamin D metabolites: 1, 25-Dihydroxyvitamin D2&3 measurement using a novel derivatization agent. *Journal of Chromatography B*.
4. Analytical measurement of serum 25-OH-vitamin D3, 25-OH-vitamin D2 and their C3-epimers by LC-MS/MS in infant and pediatric specimens. *Clinical biochemistry*.
5. Quantitative determination of vitamin D metabolites in plasma using UH-PLC-MS/MS. *Analytical and bioanalytical chemistry*.
6. Variation in clinical vitamin D status by DiaSorin Liaison and LC-MS/MS in the presence of elevated 25-OH vitamin D2. *Clinica chimica acta*.
7. An LC/MS/MS method for stable isotope dilution studies of  $\beta$ -carotene bioavailability, bioconversion, and vitamin A status in humans. *Journal of lipid research*.
8. C-3 epimers can account for a significant proportion of total circulating 25-hydroxyvitamin D in infants, complicating accurate measurement and interpretation of vitamin D status. *The Journal of Clinical Endocrinology & Metabolism*.
9. Development and certification of a standard reference material for vitamin D metabolites in human serum. *Analytical chemistry*.

10. Increasing Liquid Chromatography–Tandem Mass Spectrometry (LC-MS/MS) Throughput by Mass Tagging: A Sample-Multiplexed High-Throughput Assay for 25-Hydroxyvitamin D2 and D3. *Clinical chemistry*.
11. Liquid chromatography–tandem mass spectrometric method for the determination of salivary 25-hydroxyvitamin D3: a noninvasive tool for the assessment of vitamin D status. *Analytical and bioanalytical chemistry*.
12. Rapid analysis of 25-hydroxyvitamin D2 and D3 by liquid chromatography–tandem mass spectrometry and association of vitamin d and parathyroid hormone concentrations in healthy adults. *American journal of clinical pathology*.
13. Quantification of fat-soluble vitamins in human breast milk by liquid chromatography–tandem mass spectrometry. *Journal of Chromatography B*.
14. A cross-sectional study of vitamin D and insulin resistance in children. *Archives of disease in childhood*.
15. Evaluation of automated immunoassays for 25 (OH)-vitamin D determination in different critical populations before and after standardization of the assays. *Clinica Chimica Acta*.
16. Method for simultaneous analysis of eight analogues of vitamin D using liquid chromatography tandem mass spectrometry. *Chemistry Central Journal*.
17. Routine isotope-dilution liquid chromatography–tandem mass spectrometry assay for simultaneous measurement of the 25-hydroxy metabolites of vitamins D2 and D3. *Clinical chemistry*.
18. Development of a Method for the Quantification of 1  $\alpha$ , 25 (OH) 2–Vitamin D3 in Serum by Liquid Chromatography Tandem Mass Spectrometry without Derivatization. *European Journal of Mass Spectrometry*.
19. Determination of 25-hydroxyvitamin D in human plasma using high-per-

formance liquid chromatography tandem mass spectrometry. Analytical chemistry.

20. A simple micro-extraction plate assay for automated LC - MS/MS analysis of human serum 25-hydroxyvitamin D levels. Journal of Mass Spectrometry.
21. Dietary, lifestyle, and genetic determinants of vitamin D status: a cross-sectional analysis from the European Prospective Investigation into Cancer and Nutrition (EPIC)-Germany study. European journal of nutrition.
22. A simple, sensitive, and high-throughput LC-APCI-MS/MS method for simultaneous determination of vitamin K1, vitamin K1 2, 3-epoxide in human plasma and its application to a clinical pharmacodynamic study of warfarin. Journal of pharmaceutical and biomedical analysis.
23. Analytical bias in the measurement of serum 25-hydroxyvitamin D concentrations impairs assessment of vitamin D status in clinical and research settings. PloS one.
24. Development and optimization of simplified LC-MS/MS quantification of 25-hydroxyvitamin D using protein precipitation combined with on-line solid phase extraction (SPE). Journal of Chromatography B.
25. High-throughput liquid-liquid extraction and LCMSMS assay for determination of circulating 25 (OH) vitamin D3 and D2 in the routine clinical laboratory. Clinica Chimica Acta.
26. Development of a candidate reference measurement procedure for the determination of 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 in human serum using isotope-dilution liquid chromatography tandem mass spectrometry. Analytical chemistry.
27. Development and validation of an LC-MS/MS based method for quantification of 25 hydroxyvitamin D2 and 25 hydroxyvitamin D3 in human serum and plasma. Journal of Chromatography B.

28. Determination of vitamins A, D and E in a small volume of human plasma by a high - throughput method based on liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
29. A simple and precise LC-MS/MS method for the simultaneous determination of serum 25-hydroxyvitamin D3 and D2 without interference from the C3 epimer. *Analytical Methods*.
30. Four years of LC-MS/MS method for quantification of 25-hydroxyvitamin D (D2 + D3) for clinical practice. *Journal of Chromatography B*.
31. Differential extraction of endogenous and exogenous 25-OH-vitamin D from serum makes the accurate quantification in liquid chromatography-tandem mass spectrometry assays challenging. *Annals of clinical biochemistry*.
32. Triple quadrupole versus high resolution quadrupole-time-of-flight mass spectrometry for quantitative LC-MS/MS analysis of 25-hydroxyvitamin D in human serum. *Journal of The American Society for Mass Spectrometry*.
33. Multianalyte quantification of vitamin B6 and B2 species in the nanomolar range in human plasma by liquid chromatography-tandem mass spectrometry. *Clinical Chemistry*.
34. Method for the determination of vitamin K homologues in human plasma using high-performance liquid chromatography-tandem mass spectrometry. *Analytical chemistry*.
35. Determination of the vitamin D analog EB 1089 (seocalcitol) in human and pig serum using liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B: Biomedical Sciences and Applications*.
36. Menadione (vitamin K3) is a catabolic product of oral phylloquinone (vitamin K1) in the intestine and a circulating precursor of tissue menaquinone-4 (vitamin K2) in rats. *Journal of Biological Chemistry*.

37. Quantitative determination of plasma vitamin K1 by high-performance liquid chromatography coupled to isotope dilution tandem mass spectrometry. *Analytical biochemistry*.
38. Variation in clinical vitamin D status by DiaSorin Liaison and LC-MS/MS in the presence of elevated 25-OH vitamin D2. *Clinica chimica acta*.
39. The 25-hydroxyvitamin D3 C-3 epimer: distribution, correlates, and reclassification of 25-hydroxyvitamin D status in the population-based Atherosclerosis Risk in Communities Study (ARIC). *Clinica chimica acta*.
40. Quantification of the 3 $\alpha$  and 3 $\beta$  epimers of 25-hydroxyvitamin D3 in dried blood spots by LC-MS/MS using artificial whole blood calibration and chemical derivatization. *Talanta*.
41. Agreement of seven 25-hydroxy vitamin D3 immunoassays and three high performance liquid chromatography methods with liquid chromatography tandem mass spectrometry. *Clinical chemistry and laboratory medicine*.
42. Performance evaluation of Siemens ADVIA centaur and Roche MODULAR analytics E170 total 25-OH vitamin D assays. *Clinical biochemistry*.
43. Serum C3 epimer of 25-hydroxyvitamin D and its determinants in adults: a national health examination survey in Thais. *Osteoporosis International*.
44. Candidate reference measurement procedure for the determination of (24 R), 25-dihydroxyvitamin D3 in human serum using isotope-dilution liquid chromatography–tandem mass spectrometry. *Analytical chemistry*.
45. Chromatographic separation of PTAD-derivatized 25-hydroxyvitamin D3 and its C-3 epimer from human serum and murine skin. *Journal of Chromatography B*.
46. Minimizing matrix effects for the accurate quantification of 25-hydroxyvitamin D metabolites in dried blood spots by LC-MS/MS. *Clinical chemistry*.

47. A comparison between two different automated total 25-hydroxyvitamin D immunoassay methods using liquid chromatography-tandem mass spectrometry. *Biochemia medica*.
48. Comparison of two 25-hydroxyvitamin D immunoassays to liquid chromatography-tandem mass spectrometry in assessing samples from the Chinese population. *Clinica Chimica Acta*.
49. Establishing an accuracy basis for the vitamin D external quality assessment scheme (DEQAS). *Journal of AOAC International*.
50. Validation and comparison of a rapid liquid chromatography tandem mass spectrometry method for serum 25OHD with the efficiency of separating 3-epi 25OHD3. *Clinical biochemistry*.
51. Vitamin D status after a high dose of cholecalciferol in healthy and burn subjects. *Burns*.
52. Development of an improved standard reference material for vitamin D metabolites in human serum. *Analytical chemistry*.
53. A fast and simple method for simultaneous measurements of 25 (OH) D, 24, 25 (OH) 2D and the vitamin D metabolite ratio (VMR) in serum samples by LC-MS/MS. *Clinica Chimica Acta*.
54. Combined measurement of 6 fat-soluble vitamins and 26 water-soluble functional vitamin markers and amino acids in 50  $\mu$  L of serum or plasma by high-throughput mass spectrometry. *Analytical chemistry*.
55. Quality assessment of vitamin D metabolite assays used by clinical and research laboratories. *The Journal of steroid biochemistry and molecular biology*.
56. Comparison of the effect of daily versus bolus dose maternal vitamin D3 supplementation on the 24, 25-dihydroxyvitamin D3 to 25-hydroxyvitamin D3 ratio. *Bone*.



57. Conversion of Phylloquinone (Vitamin K1) into Menaquinone-4 (Vitamin K2) in Mice two possible routes for menaquinone-4 accumulation in cerebra of mice. *Journal of Biological Chemistry*.
58. Cytochrome P450-dependent catabolism of vitamin K:  $\omega$ -hydroxylation catalyzed by human CYP4F2 and CYP4F11. *Biochemistry*.
59. Influence of CYP4F2 polymorphisms and plasma vitamin K levels on warfarin sensitivity in Japanese pediatric patients. *Drug metabolism and pharmacokinetics*.
60. Liquid chromatography–tandem mass spectrometry method for the determination of vitamin K homologues in human milk after overnight cold saponification. *Journal of Food Composition and Analysis*.
61. The ratio of serum 24, 25-dihydroxyvitamin D3 to 25-hydroxyvitamin D3 is predictive of 25-hydroxyvitamin D3 response to vitamin D3 supplementation. *The Journal of steroid biochemistry and molecular biology*.
62. A new quantitative LC tandem mass spectrometry assay for serum 25-hydroxy vitamin D. *Steroids*.
63. The high prevalence of hypovitaminosis D in China: a multicenter vitamin D status survey. *Medicine*.
64. Disulfide-dependent Protein Folding Is Linked to Operation of the Vitamin K Cycle in the Endoplasmic Reticulum a protein disulfide isomerase-VKORC1 redox enzyme complex appears to be responsible for vitamin K1 2, 3-epoxide reduction. *Journal of Biological Chemistry*.
65. Determination of 1,25-dihydroxyvitamin D2 and 1,25-dihydroxyvitamin D3 in human serum using liquid chromatography with tandem mass spectrometry. *Journal of Chromatography B*.

## 水溶性维生素

1. Simultaneous determination of water - soluble vitamins in selected food matrices by liquid chromatography/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
2. Inhibition of heterocyclic amine formation by water-soluble vitamins in Maillard reaction model systems and beef patties. *Food Chemistry*.
3. Simultaneous quantification of 21 water soluble vitamin circulating forms in human plasma by liquid chromatography-mass spectrometry. *Journal of Chromatography A*.
4. Quantitative profiling of biomarkers related to B-vitamin status, tryptophan metabolism and inflammation in human plasma by liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
5. A rapid and sensitive LC-MS/MS method for determination of coenzyme Q 10, in tobacco (*Nicotiana tabacum*, L.) leaves. *Journal of separation science*.
6. Mitochondrial Coenzyme Q10 Determination by Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry. *Clinical Chemistry*.
7. Quantitation of Ubiquinone (Coenzyme Q10) in Serum/Plasma Using Liquid Chromatography Electrospray Tandem Mass Spectrometry (ESI-LC-MS/MS). *Methods in Molecular Biology*.
8. Quantification of the Reduced Form of Coenzyme Q10, Ubiquinol, in Dietary Supplements with HPLC-ESI-MS/MS. *Food Analytical Methods*.

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