

Determination Of Vitamin K In Blood Serum By High

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Determination of vitamin K composition of fermented food ...

A determination of the solubility of vitamin K in the various solvents being tested confirmed the results of the extraction, since benzene was found to dissolve the greatest amount of the crystalline form of the vitamin.

Determination of vitamins K1, MK-4, and MK-7 in human ...

Vitamin K, a fat-soluble vitamin predominantly found in nature, is classified as vitamin K1 (phyloquinone) that is present in green vegetables and vitamin K2 (menaquinone) that is present in meat, fish, and fermented foods [8 - 10].

Fat soluble vitamin detection in Food by LC/MS/MS

METHODS: Vitamin K was determined by HPLC with fluorescence detection after postcolumn zinc reduction. The detection was performed at 246 nm (excitation) and 430 nm (emission). The internal standard and 2 mL of ethanol were added to 500 µL of serum. The mixture was extracted with 4 mL of hexane, and solid phase extraction was then used.

Estimation of vitamin K intake in Koreans and ...

Human milk is the only source of vitamin K for exclusively breastfed neonates. This vitamin is crucial both for blood coagulation (vitamin K 1) and for the normal neurological and skeletal development of the foetus and newborn (vitamin K 2). Since vitamin K is ubiquitous in foods, deficiency is not common in adults, but plasma levels and hepatic storage are very low at birth.

A METHOD FOR THE DETERMINATION OF VITAMIN K IN FRUITS AND ...

AbstractVitamin K (phyloquinone or vitamin K1 and menaquinones or vitamin K2) plays an important role as a cofactor in the synthesis of hepatic blood coagulation proteins, but recently has also aroused an increasing interest for its action in extra-hepatic tissues, in particular in the regulation of bone and vascular metabolism.

Method for the Determination of Vitamin K Homologues in ...

Abstract: Dietary phyloquinone (vitamin K1) is considered to be a major determinant of human vitamin K status. For this reason, measurements of plasma vitamin K concentrations provide a useful tool of vitamin K status in man. There is a growing interest in the role, biochemical function, and metabolism of vitamin K in vivo.

Determination of vitamin K in foods: a review.

Vitamin K plays a key role in the blood coagulation, but it is also essential for bone and vascular health. 2, 10-16 Especially over the last thirty years, different methods for quantification of vitamin K in serum have been developed. 17-21 The most commonly used methods for determination of vitamin K are HPLC methods with fluorescent or electrochemical detection. Recently, there have been papers on tandem mass spectrometry (LC-MS).

Determination of vitamins K1, MK?4, and MK?7 in human ...

Determination of vitamin K composition of fermented food 1. Introduction. Vitamin K is a group of fat soluble phyloquinone (PK) and menaquinone (MK)... 2. Materials and methods. Hexane, 2-propanol, and dichloromethane were of HPLC grade... 3. Results. Testing of the extraction protocols revealed ...

14 questions with answers in Vitamin K | Science topic

Vitamin K (phyloquinone or vitamin K1 and menaquinones or vitamin K2) plays an important role as a cofactor in the synthesis of hepatic blood coagulation proteins, but recently has also aroused an increasing interest for its action in extra-hepatic tissues, in particular in the regulation of bone and vascular metabolism.

Vitamin K plasma levels determination in human health.

Vitamin A (trans-Retinol) Vitamin E (?-Tocopherol) Q1 Q3 RT ID DP EP CE CXP 269.2 93 4.1 V itamn A 1 100 11 35 5 269.2 157.2 4.1 Vitamin A 2 100 11 41 15 269.2 119.1 4.1 Vitamin A 3 100 11 31 5 451.4 187.1 4.7 Vitamin K1 1 65 12 37 15 451.4 128 4.7 Vitamin K1 2 65 12 116 9

Liquid chromatography–tandem mass spectrometry method for ...

The role vitamin K plays as a cofactor in the synthesis of gamma-carboxyglutamic acid concerning on one hand the blood coagulation factors and on the other hand osteocalcin is generally accepted (Suttie, 1992, Vermeer et al., 1993).

Determination Of Vitamin K In

Vitamin K is present in the liver and other body tissues, including the brain, heart, pancreas, and bone [2, 3, 11]. In the circulation, vitamin K is carried mainly in lipoproteins [2]. Compared to the other fat-soluble vitamins, very small amounts of vitamin K circulate in the blood. Vitamin K is rapidly metabolized and excreted.

Vitamin K plasma levels determination in human health ...

The method was used to screen and quantitate vitamin K from 17 fermented food products. The highest amount of PK was detected in kimchi (42 µg/100 g), whereas the highest MK-7 content was detected in natto (902 µg/100 g). Some MK-9 was present in kefir (5 µg/100 g).

DETERMINATION OF VITAMIN K DERIVATIVES IN FERMENTED MILK ...

Determination of Vitamin K in Milk and Infant Formulas by Liquid Chromatography: Collaborative Study (a) Preparation of test sample. (1) Digestion.—Weigh 1.0 g powder or 10.0 g liquid into test...

Determination of vitamin K composition of fermented food.

We report here the development of a precise and sensitive method for the determination of vitamin K homologues including phyloquinone (PK), menaquinone-4 (MK-4), and menaquinone-7 (MK-7) in human plasma using HPLC-tandem mass-mass spectrometry with atmospheric pressure chemical ionization (LC-APCI-MS/MS).

Vitamin K — Health Professional Fact Sheet

Determination of vitamin K in foods: a review. Parrish DB. Vitamin K receives less dietary attention and fewer assays in foods than other fat-soluble vitamins. It is widely distributed in foods, usually at low concentrations. The human requirement is small. Intestinal bacteria synthesize vitamin K, which presumably helps provide the metabolic requirements for vitamin K.

LC-MS/MS Quantitative Analysis of the Vitamin K s and ...

determination of vitamin K1 and vitamin K2 (MK-4 to MK-10) in fermented milk and fresh cheese products. The different steps of the method have been optimized to be able to quantify vitamin K in small amounts (until 0.05 µg/100 g) in dairy products. Chromatography was performed by reverse phase separation on a RP-18e

A Validated HPLC Method for the Determination of Vitamin K ...

The intra-assay precision (%CV) of the Vitamin K's in serum were determined by extracting and quantifying three replicates of the pooled sample control material. The inter-assay precision was determined over 3 consecutive days and was found to have a %CV <10% for each Vitamin K within their respective linear range for the pooled

Rapid and simple HPLC analysis of vitamin K in food ...

of 50 ng/ml. Rapid determination of vitamin A by through the chromatographic method represents a good solution for its quantification in the different dietary supplements. Keywords: retinol (vitamin A), dietary supplements, HPLC method.

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