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Determination of β -carotene in infant formula by HPLC

Kyungmi Hwang

National Institute of Food and Drug Safety Evaluation, South Korea

The purpose of this research is to determine β -carotene profile of infant formula products. In this method, the sample preparation method required prior saponification followed by n-hexane extraction. A HPLC method was performed on Shiseido LC system (Nanospace SI-2) coupled to UV detector, with a UG120 (C18, 4.6 \times 150 mm, 5 μ m) column. Method performance parameters were estimated for linearity, limits of detection (LOD) and quantification (LOQ) and accuracy. The linearity of standard solution with correlation coefficient was higher than 0.999 in range of 0.125-2.0 mg/L. LOD was 0.07 mg/L and LOQ was 0.22 mg/L. Accuracy was determined by recovery from spiked samples and ranged from 105 to 126%. The method was found to be suitable for routine quality control monitoring of infant formulas.

Biography

Kyungmi Hwang is a scientific officer of Nutrition and functional food research team, National Institute of Food and Drug Safety Evaluation, South Korea. She has completed her PhD from Pusan National University and postdoctoral studies at Kunkook University School of Bioinformatics in Korea. She has been working in Korea Food Research Institute for 2 years as a researcher. Her research and development interests cover the areas of functional food and food chemistry. She has published more than 12 papers in reputed journals.

sprite11@korea.kr

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