Agilent Technologies

Agilent Bond Elut LMS

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Environmental

Development of EPA Method 525.3 for the analysis of semivolatiles in drinking water

Analytical Methods, **5**, 151-163 (2013)
Paul E. Grimmett, Jean W. Munch

Tags
Bond Elut LMS, Bond Elut C18, environmental, water analysis

Abstract
Agilent Bond Elut LMS and Bond Elut C18 were used for SPE in an independent lab study of US EPA method 525.3. Published by the Royal Society of Chemistry.

Food testing and agriculture

Misleading measures in Vitamin D analysis: A novel LC-MS/MS assay to account for epimers and isobars

Nutrition Journal, **10** (2011)
Iltaf Shah *et al.*

Tags
Bond Elut SI, Bond Elut Plexa, Bond Elut LMS, Bond Elut PPL, SampliQ OPT, SampliQ DVB, ZORBAX RRHD SB-C18, Ultron ES-OVM, food testing and agriculture, dietary supplements, natural compounds and additives

Abstract
Recently, the accuracies of many commercially available immunoassays for Vitamin D have been questioned. Liquid chromatography tandem mass spectrometry (LC- MS/MS) has been shown to facilitate accurate separation and quantification of the major circulating metabolite 25-hydroxyvitamin-D3 (25OHD3) and 25-hydroxyvitamin-D2 (25OHD2) collectively termed as 25OHD. However, among other interferents, this method may be compromised by overlapping peaks and identical masses of epimers and isobars, resulting in inaccuracies in circulating 25OHD measurements. The aim of this study was to develop a novel LC-MS/MS method that can accurately identify and quantitate 25OHD3 and 25OHD2 through chromatographic separation of 25OHD from its epimers and isobars. © The Authors.

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