



Agilent Technologies

Agilent ZORBAX RRHD

A collection of citations to advance your research

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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 & agriculture, dietary supplements, natural compounds & 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.

Small molecule pharmaceuticals and generics

[Comprehensive chemical analysis of Venenum Bufonis by using liquid chromatography/electrospray ionization tandem mass spectrometry](#)

Journal of Pharmaceutical and Biomedical Analysis , **56**, 210-220 (2011)
Yongmei Hu *et al.*

Tags

ZORBAX RRHD Eclipse Plus C18, 1290 Infinity LC, 6540 Accurate-Mass Q-TOF M, small molecule pharmaceuticals & generics, traditional medicine

Abstract

An Agilent ZORBAX Rapid Resolution High Definition Eclipse Plus C18 column was used in an Agilent LC/MS system, comprising an Agilent 1290 Infinity LC coupled to a 6540 Accurate-Mass Q-TOF MS, for the analysis of a Chinese medicine. Published by Elsevier B. V.

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