Agilent Technologies

Agilent J&W DB-17ht

A collection of citations to advance your research

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Food testing and agriculture

Time-and temperature-dependent migration studies of Irganox 1076 from plastics into foods and food simulants

Food Additives & Contaminants: Part A, **29**, 836-845 (2012)
G. Beldì *et al.*

Tags
DB-17ht, 5890 GC, 5973 MSD, food testing and agriculture, food processing and packaging

Abstract
The study provides an exhaustive set of migration data for octadecyl 3-(3,5-di-*tert*-butyl-4-hydroxyphenyl)propionate (Irganox 1076) from low-density polyethylene (LDPE) in several food matrices. Irganox 1076 was used as a model migrant because it represents one of the typical substances used as an antioxidant in food packaging polymers. Kinetic (time-dependent) migration studies of Irganox 1076 were performed for selected foodstuffs chosen with different physical–chemical properties and in relation to the actual European food consumption market. The effect of fat content and of the temperature of storage on the migration from plastic packaging was evaluated. The results show that migration increased with fat content and storage temperature. All data obtained from real foods were also compared with data obtained from simulants tested in the same conditions. In all studied cases, the kinetics in simulants was higher than those in foodstuffs. The work provides data valuable for the extension of the validation of migration model developed on simulants to foodstuffs themselves. © 2012 Taylor & Francis.

Screening for pesticide residues in oil seeds using solid-phase dispersion extraction and comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry

Journal of Separation Science, **35**, 1634-1643 (2012)
Xiupin Wang *et al.*

Tags
DB-17ht, DB-5ms, food testing and agriculture, pesticides

Abstract
Agilent J&W GC columns were used in an assessment of pesticide residues in oilseeds. Published by Elsevier B. V.

Sampling and Analytical Methods of the National Status and Trends Program Mussel Watch Project: 1993-1996 Update

NOAA Technical Memorandum, NOS ORCA 130, 257 pp (1998)
G. G. Lauenstein, A. Y. Cantillo (eds)

Tags
CP-Sil 5/C18 CB for PCB, DB-17ht, DB-5, DB-5ms, ChromSpher PAH, 5880A, 5890, food testing and agriculture, persistent organic pollutants

Abstract
Analyses undertaken during the mussels watch project made extensive use of Agilent instruments variously equipped with Agilent J&W GC columns or Agilent LC columns. Published by the US National Oceanic and Atmospheric Administration.

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