

1: New data on thermoluminescence of inorganic dust from herbs and spices - IOPscience

Food Irradiation and the Chemist (Special Publication No. 86). Herausgegeben von D.E. Johnston und M.H. Stevenson. Seiten, zahlr. Abb. und Tab. Royal Society of.

Ionizing Energy for Food Processing. Council for Agricultural Science and Technology. Council on Agricultural Science and Technology, Report Analytical Detection Methods for Irradiated Foods. A review of the Current Literature. International Atomic Energy Agency , March Supplement to Food Irrad. Radiation - induced formation of deoxy-products from trehalose; the influence of oxygen, added proteins and lipids. Study of the gamma irradiation effect on paprika powder by NIRS. In Making Light Work: Weinheim, New York, pp. The Identification of Irradiated Foodstuffs. Possibility of Identifying Irradiated Samples. Commission of the European Communities. Strasbourg, May , EUR , pp. Ancona, September , EUR , pp. Radiation Chemistry of Carbohydrates. Recent Advances in Radiation Chemistry of Lipids. Recent Advances in Radiation Chemistry of Proteins. Analytical Methods for Irradiated Foods. Radiolytic Effects in Foods. Mode of Cleavage in Simple Triglycerides. Emerging Methods, Gaonkar, A. Identification of Irradiated Potatoes by Impedance Measurements. Radiation Chemistry of Lipids. Radiolysis on Nonaqueous Components of Foods. Electron Spin Resonance of Irradiated Fruits. Origins and Implications for Detecting Irradiation. Effect of Irradiation on Meat Proteins. In PHASE 2, healthy carbs, including most fruits, whole grains and dairy products are gradually reintroduced, but processed carbs such as bagels, cookies, cornflakes, regular pasta and rice cakes remain on the list of foods to avoid or eat rarely.

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Packaging aspects of irradiated flesh foods: Present status, a review. The effects of ionizing radiation on flexible packaging materials plastic films, cellophane, paper etc. The flexible materials approved in the U. Army and Atomic Energy Commission research programs, and to the earlier Soviet literature. Gamma irradiation of food contact plastics: Chemistry and Industry London: Effects of gamma-irradiation on hindered phenol antioxidants in poly vinyl chloride and polyolefins. Studies of the degradation of organotin stabilizers in poly vinyl chloride during gamma irradiation. The effects of gamma irradiation on the fate of polymer additives and the implications for migration from plastic food contact materials. The effects of gamma irradiation of food contact plastics on the extent of migration of hindered phenol antioxidants into fatty food simulants. The unexpected degradation of an internal standard in the h. A comparison of the effects of gamma and electron-beam irradiation on antioxidants present in food-contact polyolefins. The effects of ionising radiation on additives present in food-contact polymers. Food Irradiation and the Chemist. The effects of gamma irradiation on the fate of hindered phenol antioxidants in food contact polymers. Analytical and ¹⁴C-labelling studies. Characterisation of solvent extractable transformation products of high molecular weight hindered phenols in polypropylene subjected to ionising radiation in air or to thermal ageing. Identification by particle-beam liquid chromatography-mass spectrometry of transformation products of the antioxidant Irganox in food-contact polymers subjected to electron-beam irradiation. Characterisation of electron beam generated transformation products of Irganox by particle-beam liquid chromatography-mass spectrometry with on-line diode array detection. Gamma radiation effects on an amine antioxidant added in an ethylene-propylene copolymer. Accelerated solvent extraction ASE of additives from polymer materials. Dionex Application Note ; Dionex Co. Box , Sunnyvale, CA Accelerated solvent extraction ASE of plasticizers from poly vinyl chloride polymer. Resins , global consumption tables. Wheaton Science Products; available online at <http://> Identification of the volatiles from low density polyethylene film irradiated with an electron beam. Effects of film variety on the amounts of carboxylic acids from electron beam irradiated polyethylene film. Effects of the conditions for electron beam irradiation on the amounts of volatiles from irradiated polyethylene film. Retention model for sorptive extraction--thermal desorption of aqueous samples: Analysis of migrants from Nylon-6 packaging films into boiling water. Food Additives and Contaminants 10 5: Methods and approaches used by FDA to evaluate the safety of food packaging materials. Determination of migrants in and migration from nylon food packaging. Gas Chromatography of Polymers. Determination of volatile compounds in polymer systems] Bersch, C. Effect of radiation on plastic films. Modern Packaging 32 8: Polyimide for deactivating gas chromatography vaporizing chambers and fixing packing materials. Analysis of epsilon-caprolactam and its cyclic oligomers by high-performance liquid chromatography. Large-volume injection in capillary gas chromatography using a programmed-temperature vaporizing injector in the on-column or solvent-vent injection mode. Fast and efficient volatile compound analysis by purge-and-trap GC-MS. Effects of electron beam irradiation on commercial polypropylene: Kinetic study of antioxidant degradation. Effects of electron beam irradiation on antioxidants in commercial polyolefins: Determination and quantification of products formed. Effects of electron beam irradiation on the migration of antioxidants and their degradation products from commercial polypropylene into food simulating liquids. Effects of ionizing radiation on plastic food packaging materials: Chemical and physical changes. Global migration, sensory changes and the fate of additives. Radiation sterilization of medical devices. Effects of ionizing radiation on ultra-high molecular-weight polyethylene - a review. Radiolysis products in gamma-irradiated plastics by thermal desorption-GC-MS. Characterization of volatile radiolysis products in radiation-sterilized plastics by thermal desorption-gas chromatography-mass spectrometry: Screening of six medical polymers.

Analysis of volatile radiolysis products in gamma-irradiated LDPE and polypropylene films by thermal desorption-gas chromatography-mass spectrometry. Part 2, The Hildebrand Solubility Parameter, downloaded from: Large-volume injection in capillary supercritical fluid chromatography. Phosphite additives and their transformation products in polyethylene packaging for gamma-irradiation. Physical methods for examining and comparing transparent plastic bags and cling films. Chemical migration from polypropylene and polyethylene aseptic food packaging as affected by hydrogen peroxide sterilization. Polymer Handbook, 2nd ed. Food packaging materials and radiation processing of food: Stabilization of gamma-irradiated polycarbonate. Medical Plastics and Biomaterials March. Available online at <http://> Effects of electron beam and gamma-irradiation on polymeric materials. Physical Properties of Polymers Handbook. American institute of Physics; Woodbury, New York. Innovative barrier technologies boost variability of PET beer bottles. The effects of gamma-irradiation on compositional changes in plastic packaging films. A solution for residual monomers? Les transferts de masse dans le couple aliment--emballage plastique: Irradiation of a barrier film: Analysis of some mass transfer aspects. Effects of various ester groups in gamma-radiation degradation of syndiotactic poly methacrylate s. Non-destructive determination of the residual monomer content in polymers by Raman spectroscopy. Food irradiation and food packaging. A review on the effects of ionizing radiation on packaging materials plastics, glass, metals, wood and waxes. The effects of microwave and UV radiation are also discussed in brief. The materials approved in the U. The chemistry of gamma-irradiated bisphenol-A polycarbonate. Testing packages for irradiated foods. Safety and quality of foodstuffs in contact with plastic materials. Effects of gamma-irradiation of plastics on the extent of migration of their additives into food simulants [in German]. Solvents and non-solvents for polymers. Polymer Handbook 3rd Ed. Global and specific migration of antioxidants from polypropylene films into food simulants. Analysis of semivolatiles organic compounds by headspace gas chromatography. A survey of styrene monomer levels in foods and plastic packaging by coupled mass spectrometry-automatic headspace gas chromatography. Migration of dioctyladipate plasticizer from food-grade PVC-film into chicken meat products: A service to quality assurance in analytical chemistry -- some experiences and achievements with regard to reference material preparation. Analysis of cling films and coloured cellophanes and the application to casework. Vaporizing systems for large volume injection or on-line transfer into gas chromatography: Comprehensive, standardized quality test for glass capillary columns. Testing capillary gas chromatographic columns. Fette, Seifen, Anstrichmittel The effect of gamma-irradiation on the migration behavior of organo-tin additives in PVC.

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