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Two extrn. methods for detn. of DDT residues in green tea were compared by Goodwin (Analyst 86, 697, 1961), who used acetone and Mills (JAOAC 46, 186, 1963), who used acetonitrile. After purif. by passage through Nuchar Attaclay and Florisil, resp., the exts. were analyzed by GC on a 5 ft x 1/8 in col. of 2% of QF-1 on Chromosorb G, 60-80 mesh, at 170°C, with N₂, 50 ml/min, as carrier gas. The best extrn. was obtained by using a Soxhlet app., with acetone, 100 ml for a 20 g sample, or acetone-hexane, 1:1, as solvent.
91-89-83a-61b

0696

No. 73-0696

DDT AND POLYCHLORINATED BIPHENYL (AROCLO 1242) EFFECTS OF UPTAKE ON E. COLI GROWTH

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Water Res. 6, No. 7: 837-41 (July 1972)

DDT at 0.01 and PCB at 0.01 and 0.1 ppm consistently stimulated E. coli growth in vitro. Differences between treatments and controls were statistically significant at the 95% confidence level. E. coli uniformly converted DDT to DDD, 75% and DDE, 25%. DDT and PCB were analyzed by GC using a 6 ft x 1/4 in, o.d., col. packed with 3% SE-30 on 60-80 mesh ABS Chromosorb W and 2% QF-1 on 60-80 mesh ABS Chromosorb W. Col. temp. was 200°C
89-61-54b

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No. 73-0697

HYDROGENATION AND DEUTERATION OF CONJUGATED ISOMERS OF LINOLEATE AND LINOLENATE WITH PALLADIUM, PLATINUM, NICKEL AND LINDLAR CATALYSTS

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J. Am. Oil Chemists' Soc. 50, No. 1: 11-15 (Jan. 1973)

Fatty acid compns. of partially deuterated prods. were detd. with a Varian Aerograph GC equipped with dual 6 ft x 1/8 in s.s. cols. packed with 15% EGSS-X on Gas Chrom P, operated with FID and a nitrogen carrier gas flow rate of 20 ml/min. Col. temp. was 190°C. Positional isomers of various monoene, conjugated diene and triene fractions were detd. by reductive ozonolysis followed by temp. progr. GC of aldehydes and aldehyde esters (50°-190°C at the rate of 6°C/min). No reten. data.
89-58b-57a-56a

0698

No. 73-0698

ANTHRAQUINONES AND OTHER CONSTITUENTS OF FABIANA IMBRICATA

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Phytochemistry 11, No. 10: 3091-92 (Oct. 1972)

The alkane, fatty acid and anthraquinone components of Fabiana imbricata were identified. Alkanes were identified by GC using a 160 cm col. of 0.8% OV-17