No. 75-0056 0056

EFFECT OF HOME LAUNDERING IN REMOVAL OF DDT, METHYL PARATHION AND TOXAPHENE RESIDUES FROM CONTAMINATED FABRICS

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Bull. Environ. Contam. Toxicol. 12, No. 3: 268-74 (Sept. 1974)

Fabrics were treated with insecticides, laundered, and analyzed for residues by means of GC anal. of extracts. The analyses were carried out in a Varian Aerograph 1200 instr. equipped with a col. packed with 15% QF-1 - 10% DC-200 on Gas Chrom Q, operated at 185°C under a nitrogen carrier gas flow. No retention data.
GE 89-61b

No. 75-0057 0057

PHOTODIELDRIN RESIDUES IN FIELD SOILS

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Bull. Environ. Contam. Toxicol. 12, No. 3: 275-80 (Sept. 1974)

Dieldrin and its photolytic conversion prod. (photodieldrin) were analyzed in soil residues by means of GC. The extracts were cleaned up on Florisil and subjected to anal. in a Shimadzu GC-5AIEE instr. equipped with dual ECD and 2 m x 3 mm, i.d., cols. packed with (I) 3% OV-17 on DMCS-treated 80/100 mesh Gas Chrom Q, operated at 190°C under a purified nitrogen carrier gas flow rate of 100 ml/min or (II) 2% OV-17 + 2% OV-1 on DMCS-treated 80/100 mesh Chamelite CS, operated at 200°C under a purified nitrogen carrier gas flow rate of 100 ml/min. GC/MS analyses were also made; they used a 2 m x 3 mm, i.d., col. packed with 4% OV-17 on DMCS-treated 100/120 mesh Gas Chrom Q, operated at 180-250°C (progr. at the rate of 10°C/min) under a He carrier gas flow rate of 40 ml/min. Retention data: Chromatogram, p. 278.
GE 91-89-88-83a -61b-35b

No. 75-0058 0058

INTESTINAL ABSORPTION OF HEXACHLOROBENZENE AND HEXACHLOROCYCLOHEXANE ISOMERS IN RATS

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Bull. Environ. Contam. Toxicol. 12, No. 3: 289-94 (Sept. 1974)

The isomers of hexachlorocyclohexane were analyzed by GC using a Hewlett-Packard 5750 instr. equipped with FID and a 2 m x 1/8 in., o.d., s.s. col. packed with 4.8% OV-17 on 100/120 mesh Gas Chrom Q, operated at 210°C for 8 min, then progr. at the rate of 20°C/min to 250°C, under a He carrier gas flow rate of 50 ml/min. Peak idents. were confirmed on 5% OV-225 on 100/120 mesh Gas Chrom Z at 210°C using a 1.35 m x 1/8 in., o.d., col. Hexachlorobenzene was also determined on the OV-17 col., with temp. programming between 200 and 250°C at a rate of 6°C/min. No retention data.
GE 89-61b

No. 75-0059 0059

THE EFFECT OF DDT AND PCB ON LIPID METABOLISM IN E. COLI AND B. FRAGILIS

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Bull. Environ. Contam. Toxicol. 12, No. 3: 295-300 (Sept. 1974)

DDT and its metabolites were quant. determined by GC in the chloroform-methanol extracts of the bacteria. The analyses were carried out in a Tracor 220 instr. equipped with tritium-foil ECDs and two 6 ft x 2 mm, i.d., glass cols. packed with a mixed stat. phase consisting of 1.5% OV-17 and 1.95% QF-1 on 100/120 mesh Chromosorb W HP. Determinations

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were confirmed on another col. packed with a mixed stat. phase consisting of 4% SE-30 and 6% QF-1 on 80/100 mesh Chromosorb W HP. Operating parameters were: Col., 200°C; nitrogen flow rate, 70 ml/min for the OV-17/QF-1 col. and 80 ml/min for the SE-30/QF-1 col. No retention data.
GE 89-61b

0060 No. 75-0060
SOME ASPECTS OF THE RECOVERY OF CHLORINATED RESIDUES (DDT-TYPE COMPOUNDS AND PCB) FROM FISH TISSUE BY USING DIFFERENT EXTRACTION METHODS
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Bull. Environ. Contam. Toxicol. 12, No. 3: 301-07 (Sept. 1974)

Four solvent systems were compared. The chlorinated residues were analyzed by GC using a Varian Aerograph 600-D instr. equipped with a ^{3}H ECD and a 1.5 m x 1.5 mm, i.d., col. packed with (I) SF-96 on 100/120 mesh HMDS-treated Chromosorb W and (II) A mixture of 65 parts 8% QF-1 and 35 parts 4% SF-96 on 100/120 mesh Chromosorb W. Analyzed were: PCB's, DDE, and DDT. No retention data.
GE 89-61b

0061 No. 75-0061
PRODUCTION OF DIMETHYLSELENIDE GAS FROM INORGANIC SELENIUM BY ELEVEN SOIL FUNGI
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Bull. Environ. Contam. Toxicol. 12, No. 3: 308-11 (Sept. 1974)

The headspace gas from bacterial cultures grown in the presence of inorg. selenium compds. was analyzed for dimethylselenide gas by means of GC. The analyses were carried out in a Hewlett-Packard 402 instr. equipped with a FID and a 183 cm x 3.2 mm, i.d., glass col. packed with 3% XE-60 on 80/100 mesh Chromosorb W HP (used routinely) or 3% QF-1 on 80/100 mesh Chromosorb W HP. Col. temp. was 72°C; He was the carrier gas. Microgram quants. of dimethylselenide were found. No retention data.
GE 89-67

0062 No. 75-0062
INFLUENCE OF STORAGE TEMPERATURE OF FLORISIL ON ANALYSIS OF POLYCHLORINATED BIPHENYLS
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Bull. Environ. Contam. Toxicol. 12, No. 3: 328-30 (Sept. 1974)

Var. Florisil storage temps. were tried to estab. the effect of storage temp. on cleanup effectiveness when used before anal. of polychlorinated biphenyls. The GC analyses described were carried out in a Varian Aerograph 1400 instr. equipped with an ECD and a 6 ft x 1/4 in., o.d., glass col. packed with 2% SE-30 and 2% QF-1 on 70/80 mesh Anakrom ABS, operated at 18°C under a nitrogen carrier gas flow rate of 25 ml/min. It was found that best performance is obtained if the Florisil is stored at room temp. after the initial overnight heating to 130°C. Retention data: Chromatograms, p. 329.
GE 91-89-83a-61b

0063 No. 75-0063
SIMULTANEOUS CLEANUP OF FISH FAT CONTAINING LOW LEVELS OF RESIDUES AND SEPARATION OF PCB FROM CHLORINATED PESTICIDES BY THIN-LAYER CHROMATOGRAPHY
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Bull. Environ. Contam. Toxicol. 12, No. 3: 331-37 (Sept. 1974)

The polychlorinated biphenyls were removed by a sulfuric-acid procedure. The PCB's, lindane, aldrin, dieldrin, endrin, DDE, DDD, DDT pesticides were sepd. by TLC. Confirmatory tests were carried out by means of GC, using a Varian Aerograph 600-D instr. equipped with a ^{3}H ECD and 1.5 m x 1.5 mm, i.d., glass cols. packed with (1) 4% SF-96

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