0052

No. 75-0052

MERCURY AND SELECTED PESTICIDE LEVELS IN FISH AND WILDLIFE OF UTAH: I. LEVELS OF MERCURY, DDT, DDE, DIELDRIN AND PCB IN FISH

F. A. Smith, R. P. Sharma, R. I. Lynn and J. B. Low (Utah State Univ., Logan, UT)
Bull. Environ. Contam. Toxicol. 12, No. 2: 218-23 (Aug. 1974)

Hexane extracts of fish were elutad through a Florisil col. and the concentrated aluate was analyzed by GC for DDT, DDE, dieldrin, and polychlorinated biphenyls (PCB's). The analyses was carried out in a Tracor MT-220 instr. equipped with a ^{63}Ni ECD and a 170 cm x 2 mm, i.d., col. packed with 3% QF-1 on Gas Chrom Q, operated at 200°C under a carrier gas flow rate of 80 ml/min. Additional col. packings used for residue confirmation were 1.5% OV-17 + 1.95% QF-1 and 10% DC-200. No retention data.
GE 89-61b

0053

No. 75-0053

RESIDUES OF THE INSECTICIDE MIREX FOLLOWING AERIAL TREATMENT OF CAT ISLAND

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Bull. Environ. Contam. Toxicol. 12, No. 2: 233-40 (Aug. 1974)

Mirex (the polychlorinated biphenyl Aroclor 1260) was determined in soil, algae, and other samples. Preliminary anal. was carried out in a Microtek 220 gas chromatograph equipped with an ECD and a 6 ft x 1/4 in. col. packed with 1.5% OV-17 + 1.96% QF-1 on Gas Chrom Q, operated at 200°C under a carrier gas (5% argon + 95% methane) flow rate of 80 ml/min. Retention time was 30 min. Confirmation tests were carried out on a Hewlett-Packard 402 instr. equipped with a 6 ft x 1/4 in. col. packed with 3% DC-200 on Gas Chrom Q, operated at 175°C under a carrier gas (5% argon + 95% methane) flow rate of 100 ml/min. Retention time was 36 min. Sensitivity was 0.000001 ppm.
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0054

No. 75-0054

EFFECT OF CHEMICAL STRUCTURE OF PHENYLUREAS AND ANILINES ON THE IDENTIFICATION PROCESS

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Bull. Environ. Contam. Toxicol. 12, No. 2: 241-48 (Aug. 1974)

The gases above the sealed test samples were analyzed by GC. The analyses were carried out in a Varian Aerograph 1820 instr. equipped with cols. (I) 600 cm x 3 mm, o.d., Porapak Q, 50/80 mesh, operated at 50°C which sepd. CO_2 and N_2O, and (II) 450 cm x 3 mm, o.d., Molecular Sieve 5A, 45/60 mesh, operated at 50°C which sepd. N_2 and O_2. Dual thermal conductivity cells were used as dete. No retention date.
GE 90-89-70-49

0055

No. 75-0055

PRESENCE OF PCB, DDE, AND DDT IN HUMAN MILK IN THE PROVINCES OF NEW BRUNSWICK AND NOVA SCOTIA, CANADA

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Bull. Environ. Contam. Toxicol. 12, No. 3: 258-67 (Sept. 1974)

Cleaned-up samples of human milk were concn. and anal. for polychlorinated biphenyls (PCB's), DDE, and DDT by means of GC, using a Hewlett-Packard 5750 instr. equipped with a ^{63}Ni det. and a 6 ft x 6 mm glass col. packed with 4% SE-30 on a.w., DMCS-treated Chromosorb W, operated at 200°C under a nitrogen carrier gas flow rate of 60 ml/min. Detection limits were in the microgram per gram range. GC/MS data were obtained in a Finnigan 3100D instr., using a 5 ft x 2 mm, i.d., glass col. packed with 3% OV-1 on 100/120 mesh Gas Chrom, operated at 160-230°C (progr. at the rate of 6°C/min) under a He carrier gas flow rate of 20 ml/min. Retention data: Chromatograms, pp. 263-64.
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