

CYTOGENETIC STUDIES OF BONE MARROW CELLS
FROM RATS EXPOSED TO VINYL CHLORIDE

Vinyl chloride

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The Biomedical and Comparative Toxicology Research Laboratory of the Texas Division of Dow Chemical U.S.A. was asked by the Manufacturing Chemists Association to conduct cytogenetic studies on some of the rats which had been exposed to vinyl chloride at Industrial BIO-TEST Laboratories, Decatur, Illinois. The details of the exposure levels and pathological findings will be reported separately. Preliminary reports have appeared in *Chemical Week* (115:30, July 17, 1974) and in the *Annals of the New York Academy of Sciences*, Volume 246, page 219.

The test animals were Charles River CD outbred albino rats which had been exposed to vinyl chloride gas for 7 hours per day, 5 days per week for one year at 0, 50, 200 and 2500 ppm in air. Cytogenetic studies on 5 males and 5 females from each group showed that there was no statistically significant increase in the chromosomal aberration rates in bone marrow cells of the exposed rats.

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