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Autooxidation of Alkylhydrazones and Mutagenicity of the Resulting Hydroperoxides*

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Acetone alkylhydrazones were readily autooxidized to 2-alkylazo-2-propyl hydroperoxides, which were directly mutagenic in *Salmonella typhimurium* TA 1535, TA 100, TA 102 and *Escherichia coli* WP2 hcr^- . The mechanism of this mutagenicity presumes that the hydroperoxides in aqueous solution decompose to alkyl diazonium ions which were observed in the alkylation of 4-(*p*-nitrobenzyl)pyridine, and also to hydroxyl radical which was detected by ESR.

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