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Author	望月, 正隆(Mochizuki, Masataka) 道廣, 幸三(Michihiro, Kozo) 塩見, 佳津子(Shiomi, Katsuko) 伊藤, 啓(Ito, Kei) 丹下, 佳子(Tange, Yoshiko) 膝館, 祥治(Hizatate, Shoji)
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Autooxidation of Alkylhydrazones and Mutagenicity of the Resulting Hydroperoxides*

Masataka MOCHIZUKI, Kozo MICHIIRO, Katsuko SHIOMI, Kei ITOH,
Yoshiko TANGE and Shoji HIZATATE

望月正隆, 道廣幸三, 塩見佳津子, 伊藤 啓, 丹下佳子, 藤館祥治

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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