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Observations, *in vitro*, on *N*-nitrosation by intracellular extracts of some microorganisms isolated from palm wine

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Abstract

Soluble fractions of sonicates derived from cell suspensions of some bacteria and yeasts, which contaminate palm sap, enhanced nitrosamine formation when each fraction was incubated, under sterile conditions, at a pH of 7.0 ± 0.2 , with either diphenylamine, dimethylamine or diethylamine and sodium nitrite and glucose as substrates. The intrinsic factor in the extracts, which was responsible for the *N*-nitrosation reactions, was heat labile and might be an enzyme; a so-called '*N*-nitrosatase'.

• Abbreviations

- DEN, diethylnitrosamine;
- DMN, dimethylnitrosamine;
- GC, gas chromatography;
- NEDA, naphthylethylenediamine;
- SA, sulphanilic acid;

- TLC, thin-layer chromatography

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