

Chemiluminescence Studies Using Some Non Steroidal Anti-Inflammatory Drugs with Benzoyl Hydroperoxide

Priti Mishra¹ and W. B. Gurnule*²

Department of Chemistry, D. L. S. P. G. College, Bilaspur, C.G. India¹

Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur, Maharashtra, India²

mishra.vibhu2008@gmail.com and wbgurnule@gmail.com

Abstract: The oxidation of luminol with benzoyl hydroperoxide (BzOOH) in alkaline medium was studied. The reaction occurring between luminol and benzoyl hydroperoxide in alkaline medium leads to the production of nitrogen gas with simultaneous emission of CL. The effect of non-steroidal anti-inflammatory drugs (NSAIDs) like diclofenac sodium, analgin & paracetamol has also been studied. The time dependence of the CL intensity of luminol and benzoyl hydroperoxide at different temperature and the CL emission spectra of the reactions have been recorded for better understanding of the reaction.

Keywords: Chemiluminescence, Luminol, Benzoyl hydroperoxide, Non-steroidal anti-inflammatory drugs like Diclofenac sodium, Analgin & Paracetamol.

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