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**STUDI PERBANDINGAN
KINETIKA PERURAIAN SEFALEKSIN DAN
N-4-METILBENZOILSEFALEKSIN PADA pH 8,00**



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN KIMIA FARMASI
SURABAYA**

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Lembar Pengesahan

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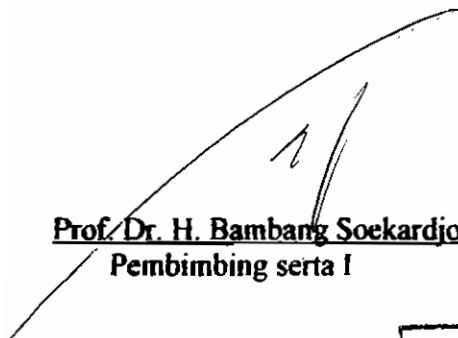
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ABSTRACT

Comparative Study of Degradation Kinetics of Cephalexin and N-4-methylbenzoilcephalexin at pH 8.00

This research was done to compare stability of cephalexin and its derivate, N-4-methylbenzoilcephalexin. N-4-methylbenzoilcephalexin has a great potency to be developed furthermore, because it is more active against *P. aeruginosa* than cephalexin. The stability was determined by studying degradation of these compounds by comparing their physical chemistry's parameters, which are reaction rate (k), half-life period ($t_{1/2}$), shelf life (t_{90}) and energy of activation (E_a). It was done by studying degradation of medicines at various temperature (40, 60, 70, 80°C) and various time (30, 60, 90, 120, 150 minutes) in condition pH 8,00. A quantitative analysis was done by colorimetric method. It was obtained that N-4-mehtylbenzoilcephalexin more stable than cephalexin.

Keyword : cephalexin, N-4-methylbenzoilcephalexin, colorimetric, kinetics of degradation