- ANTIBACTERIALS AGENT.

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SINTESIS *N*-(4-TRIFLUOROMETILBENZOIL) SEFRADIN DAN UJI AKTIVITAS ANTIBAKTERI TERHADAP *Staphylococcus aureus ATCC 25923*

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Lembar Pengesahan

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ABSTRACT

Synthesis *N*-(4-triflouromethylbenzoyl)cephradine and it antibacterial activity against *Staphylococcus aureus ATCC 25923*

Synthesis of *N*-(4-trifluoromethylbenzoyl)cephradine had been done by acylation 4-trifluoromethylbenzoyl chloride with cephradine in THF, used Schotten-Baumann method. This procedure yields 46,55% of *N*-(4-trifluoromethylbenzoyl)cephradine. The purity was analized by melting point determination and Thin Layer Chromatography. The structure identification of functional compound was based on the ultraviolet spectrophotometry, infra red spectrophotometry and ^{1}H-NMR spectrometry.

Determination of antibacterial activity of *N*-(4-trifluoromethylbenzoyl) cephradine by metal ring difution method was expressed as minimal inhibitory concentration (MIC) against *Staphylococcus aureus ATCC 25923*. The result showed that the antibacterial activity of *N*-(4-trifluoromethylbenzoyl)cephradine was lower than *N*-benzoyl cephradine.

Key words: synthesis, *N*-(4-trifluoromethylbenzoyl)cephradine, antibacterial activity, *Staphylococcus aureus*.