***VALIDATION TEST OF UV SPECTROFOTOMETRY METHOD IN DETERMINING OFLOXACINE CONTENT IN TABLET PROPERTIES USING HCl AND NaOH SOLVENTS***

***QAMARIAH ALFATH***

***152114155***

***ABSTRACT***

*Ofloxacin is well known as the second-generation of florokuinolone antibiotic used in the treatment of urinary tract infections, prostatitis, respiratory infections and skin infections. The dosage forms of these drugs on the market wasserved in the form of tablets; generic and trademark. Drug quality checking is essentially needed so that the drug reaches its capture point and gives a therapeutic effect. In some literature, ofloxacin absorbs the spectrum in 0.1 N HCl and NaOH 0.1 N. solvents. The purpose of this study is to determine the levels ofloxacin in tablet preparations on the market using the ultraviolet spectrophotometric method*

*Determination of ofloxacin levels in tablet preparations was carried out by ultraviolet spectrophotometry method using 0.1 N HCl solvent and 0.1 N NaOH. To test the validity of this method a validation test was performed with parameters of accuracy, precision, limit of detection (LOD), and quantitation limit (limit) of quantitation / LOQ).*

*The results of the research obtained ofloxacin (Indofarma) levels with HCl solvents (99.17 ± 2.508)%; tablets ofloxacin (Novell) with an HCl solvent of (100.58 ± 1,026)%; tablets ofloxacin (Indofarma) with NaOH (99.2 ± 2.193)% solvent; tablets ofloxacin (Novell) with NaOH as much as (98.86 ± 3.412)%. The validation test results obtained showed that the ultraviolet spectrophotometry method can be used for determination of ofloxacin levels in tablet preparations, because it provides good accuracy and precision values ​​with LOD and LOQ using NaOH solvent of 0.15282 µg / mL and 0.50942 µg / mL and by using HCl solvents amounted to 0.11261 µg / mL and 0.37537 µg / ml.*

*All generically determined tablets and trademark tablets had met the content requirements of the tablets according to Pharmacopoeia Indonesia V (2014), in which it was not less than 90.0% and no more than 110.0% of the amount stated on the label.*

***Keywords: HCl, NaOH, ofloxacin, concentration determination, ultraviolet spectrophotometry, Validation***