

ABSTRACT

(LITERATURE REVIEW)

VALIDATION ANALYSIS OF KETOPROPHENE CONDITIONING METHODS IN TABLETS USING UV-VIS SPECTROPHOTOMETRY AND HPLC METHODS

Desie Kristiana

Ketoprofen tablets are an example of an NSAID class of pain medication that is widely used by the public. Every drug in circulation must comply with the monograph contained in the Indonesian Pharmacopoeia. One aspect of monographs is grading. Determination of ketoprofen tablet levels can be done by various methods, including visible ultraviolet spectrophotometry and HPLC methods. This literature review is used to determine whether there are differences in the results of the determination of ketoprofen levels in tablet preparations using the visible ultraviolet spectrophotometric method and the HPLC method. The research method in the Literature Review uses research journals obtained from the google scholar database, researchgate and digital reference guard. After going through the scanning, skimming and mapping process, five reference journals were obtained as data in the Systematic Literature Review. Based on the results of the literature review, it has been concluded that there is no significant difference between the visible ultraviolet spectrophotometric method and the HPLC method in determining the levels of ketoprofen in tablet preparations. The journal of Salman Umar et al (2021) has a precision value of 1.781. The journal Mohammad Shannaz et al (2020) accuracy is expressed by % recovery of 99.7%. The journal Georgeos Andrews and Saleh Trefi (2020) has a precision value expressed by % RSD of 0.41%. Journal of A.A. Hassan et al (2019) the accuracy value is expressed by the percentage of recovery which is in the range (99-101%). Journal of Bashir Elias et al (2016) showed study accuracy >99%.

Keywords : HPLC; Ketoprofen tablets; rate determination; spectrophotometry UV-VIS; Validation