ABSTRACT

FORCED DEGRADATION STUDY OF PARACETAMOL LEVELS

USING UV-VIS SPECHTROPHOTOMETRY

Maulidia Ningsih

Paracetamol or acetaminophem is a class of over-the-counter drugs that are widely used by the general public ti treat fever and mild pain. The purpose of the study was to determine the effect of forced degradation by hydrolysis on paracetamol levels using Uv-Vis Spectrophotometry. This type of research is experimental with the method used is Uv-Vis Spectrophotometry which is carried out at a wavelength of 200-400 nm. The results obtained from the study in the form of a linear regression equation y=0,0652x + 0,0269 with a value of R^2 = 0,9938. And the level of paracetamol ithout degradation was 90,40% while paracetamol with degradation was 87,98%. It was concluded that there was a decrease in the levels of paracetamol treated with degradation so that it was stated there was an indication of the effect of forced degradation by hydrolysis of paracetamol. The advice given by the researcher is to develop further research related to validation methods and degradation studies in determining the levels of paracetamol tablets.

Keyword : *Paracetamol, Degradation, Spectrophotometry Uv-vis*