

ABSTRACT

One way of testing methods performed in the manufacture of tablets and capsules is a way to test the disintegration time. The disintegration time test aims to establish the suitability of disintegration time limit specified in each monograph, unless the label states that the tablets or capsules are used as lozenges or chewing or content designed to release the drug gradually over a certain period of time or releasing the drug in the two different periods of time or over the clear distance between the release period.

On this basis the authors make the tool titled "Disintegration Tester Based Microcontroller". In this tool, there are three selection temperature 35^oC, 37^oC and 39^oC temperature selection in accordance with regulation from farmacope Indonesia with the type of drugs to be tested for a temperature of 35^oC types of drug testing coated tablets with a time of 60 minutes, 37^oC drug testing types of non-coated tablets with time 15 min, 39^oC temperature for this type of drug test capsule with a time of 15 minutes, on each test using a speed of 30 RPM

After taking measurements and calculation results obtained for a temperature of 35 ° C. Error% = 0%, to 37 ° C, Error% = 0.01802%, at a temperature of 39 oC, Error% = 0.08547%, while the results obtained for motor speed calculation , Error = 0.51%.

Kata kunci : Suhu , RPM , Timer.