

ABSTRAK

Most tissues are found to be colorless, so not much can be seen under a microscope. Histological staining is a series of technical processes carried out in preparation of tissue samples by staining using histological stains to assist in microscope research (Anderson, 2011).

But the tool that the author makes has a disadvantage, namely motor rotation has only 4 steps so that the author uses 4 tubes in period I and 4 tubes in period II and uses a stepper motor as a drive and servo motor as a drive up and down the mechanical arm.

Measuring comparator output on 1 lm358 feet is done twice ie when it is exposed to resistance or not, when exposed to voltage resistance at 1 lm358 3.8V and when it is not exposed to voltage resistance at 1 lm358 0V, an error of 0.416667 is obtained in the deparafinization process (xylol), the rehydration process uses 96% alcohol, obtained an error of 0.333333 and for alcohol 90% an error of 0.666667 is obtained, the process of hematoxylin gets an error of 0.333333 because the process of cleaning the tissue with water is done manually. The process of eosin error is 0,833333 , the process of dehydration with liquid alcohol 90% error of 0.666667 and alcohol 96% error of 0.666667, clearing process with liquid xylol error of 0.333333.

Keyword: L298N, Tissue Staining, Atmega 328P, LM358.