

ABSTRACT

Tissue Processor consists of several stages, there are dehydration, clearing, and paraffin infiltration. The stage of dehydration to eliminate the content of water the tissue by soak it into alcohol. The clearing stage is the process of pulling out the alcohol content in the tissue using xylol fluid. The paraffin infiltration stage is the stage of filling the tissue cavity with paraffin liquid. The whole process uses 10 tubes with 2 paraffin heating tube.

The making of this modification use the method of "one group post test design" by treating the equipment without do any measuring from the first condition and the result from direct treatment directly measured without compared with control group. The production of this modification used PLC) as the main controller of the entire series. The mechanic movement from this tool used a DC motor and AC motor and also 2 limit switch sensors to control as the limit controller for the movement of motor.

Based on the results of temperature measurements obtained an error the biggest value 4,44% in the paraffin heating tube 1 and the biggest error 4,0% in the paraffin heating tube 2. While the time of measurements for each has smallest error in the first tube 0.03% and the biggest measurements of error in the fourth, fifth, sixth, eighth, and tenth tube of 0.16%

Keywords : *Tissue Processor, time, temperature.*