

ABSTRACT

Blood Roller Mixer laboratory supporting completion tool hematologi, has ability homogenisasi or mixer sample. By using blood roller mixer will guarantee mixing homogeneous, so that got sample blood that can to give clinical description genuinely represents conditon actually in patient body. Another benefit cause the loss of air bubble and blood clot in sample that can decrease tool age hematology analyzer because can causes gagging in tool.

Modification settings timer based on mikrokontroller at89s51 done to lead the time rolling mixing 2 until 20 minutes in blood roller mixer, because previous this tool is not equiped to setting timer.

After done process study planning literature, effort, tool testing and data collection, got flat - flat error 0,12125%, so that tool appropriate and can be said proper to be used.

Keyword: mikrokontroller AT89s51