ABSTRACT

Rice is a staple food for the majority of Indonesian people. One of the uses of Food Additives (BTM) which is prohibited for use because it is hazardous to health is Chlorine which is used as a rice bleach, so that medium standard rice looks like super rice with a high price. The purpose of this research is to determine whether there is chlorine content in rice.

This study tested the chlorine levels in rice, where the chlorine samples used were based on the ppm level. The ppm range measured is 0 – 500 ppm. Where the test is carried out by measuring 50 ppm per interval of each sample. Based on the tests that have been carried out, it can be seen that the greater the ppm level of the chlorine sample, the darker the color of the sample solution and the smaller the LDR sensor measurement results. The sensor calibration results for chlorine samples 100 ppm at 928.40 Ohm. While the final results of the LDR sensor measurement to 100 ppm at 928.47 Ohm.

Keywords: Rice, chlorine, LDR sensor, Arduino Uno