

A NON-INVASIVE WAY TO DETERMINE BLOOD TYPE BASED ON ANTIGEN PROPERTY

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ABSTRACT

Rapid and accurate determination of blood types is very important during emergency situation before administering a blood transfusion. Identification of blood group plays a major role in the medical field for any treatment. The conventional method involves drawing of blood samples from human body and depending upon the antigen-antibody reaction blood group is determined. The classification of human blood supported the inherited properties of red blood cells. This method provides an easy and fast means of identification of blood groups and rhesus-factor non-invasively. The light glows from the LED, which is made to pass through the finger and the transmitted light is received by the LDR, which gives the output as resistance value. This value coded to the LCD display and the blood type is based on the resistance value.

KEYWORDS: *Blood Groups, LED, LDR, Inherited Property, Resistance Value*

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