



ShanMukha

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SICKLEFIND

SickleCell Screening Testing Kit





SickleFind is an absorbance spectrometry-based test for detecting the presence of sickle hemoglobin in blood. The test can be used to screen patients for sickle cell trait and sickle cell disease. The test gives results in 15 minutes. The test kit is used along with a compatible low-cost spectrometer to obtain the diagnosis. The test kit consists of a lysis buffer and a deoxygenation agent. The sample is mixed with the working buffer, incubated, and placed in the spectrometer to obtain the diagnosis. The test is easy to perform and only requires a couple of pipetting steps. All items required to perform the test are provided with the kit.

BENEFITS



Better accuracy
than solubility tests



Smaller volume of
blood required



Available at
point of need



Mobile app for
digital access

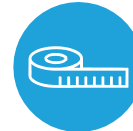
FEATURES & SPECIFICATIONS



Technology developed at
Indian Institute of Science
Bangalore



Patent led



40 Tests / Kits



Simple and
easy Procedure



Results within
15 minutes

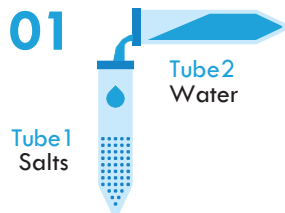


ML integrated
testing method

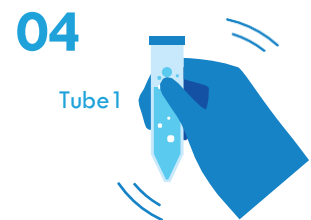


Absorbance based readout

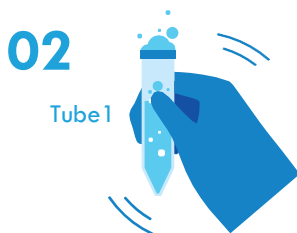
BUFFER PREPARATION



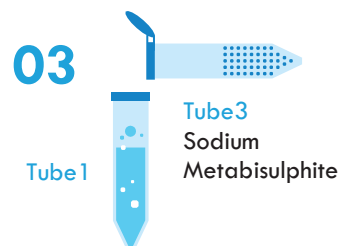
Pour the liquid
in tube 2 into tube 1



Shake tube 1
vigorously



Shake tube 1
vigorously till it has
a frothy appearance



Empty the contents of
tube 3 into tube 1

TEST PROCEDURE



STEP 1

Pipette out 1 ml of the buffer into a glass vial (5ml)



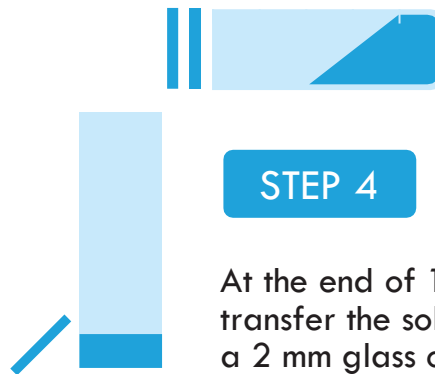
STEP 2

Add 5 ul of the blood sample into the glass vial and mix the solution well.



STEP 3

Incubate the solution for 15 minutes



STEP 4

At the end of 15 minutes, transfer the solution into a 2 mm glass cuvette.



STEP 5

Place the cuvette into the spectrometer and take the measurements.

Designed and Executed By



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