



ShanMukha

[www.sminnovations.in](http://www.sminnovations.in)

# SICKLECERT

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SickleCell Confirmatory Testing Kit

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SickleCert is an absorbance spectrometry-based assay that can be used to rapidly distinguish between sickle cell disease and sickle cell trait. The performance of this simple and easy to use confirmatory test is comparable to the gold standard HPLC test. The test gives results in 15 minutes. The test kit is used along with a compatible low-cost spectrometer to obtain the diagnosis. The sample is mixed with the working buffer prepared using the test kit, incubated, and placed in the spectrometer to obtain the diagnosis. The test is easy to perform. All items required to perform the test are provided with the kit.

## BENEFITS



Same accuracy  
as HPLC tests



Available at  
point of need



Faster Turn-around  
time compared to HPLC



Lower total costs  
compared to current tests



Mobile app for digital access

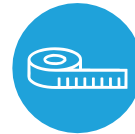
## FEATURES & SPECIFICATIONS



Technology developed at  
Indian Institute of Science  
Bangalore



Patent led



40 Tests / Kits



Simple and  
easy Procedure



Results within  
15 minutes

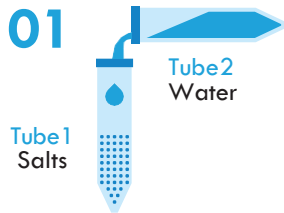


ML integrated  
testing method

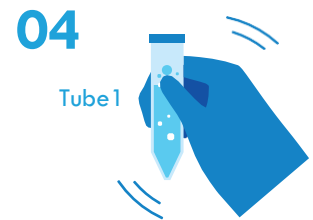


Absorbance based readout

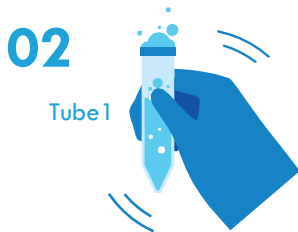
# BUFFER PREPARATION



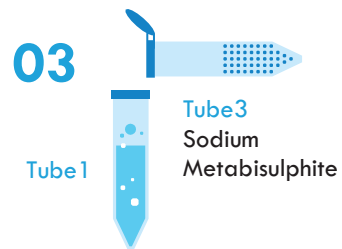
Pour the liquid in tube 2 into tube 1



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)



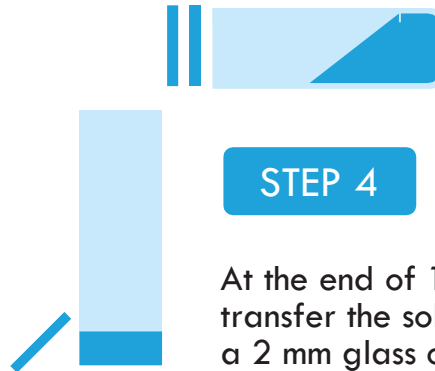
## STEP 2

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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