

Lab (5) Haemoglobin and Anemia

1. Hemoglobin Estimation:

	Test	Blank
Hemoglobin reagent	2 ml	2 ml
Blood sample	0.01 ml (10 μ l)	_____
Mix, allow to stand at room temperature for 3 min and read the absorbance at 540nm against hemoglobin reagent		

$$\text{Hb Conc. (g/dl)} = 29.4 \times \text{Abs of test}$$

2. Qualitative determination of hemoglobin S (HbS) in blood

Reagent	Volume
Sickling solution	2 ml
Patient sample (whole blood)	0.02 ml (20 μ l)
Mix by inversion and allow stand at room temperature for 5 to 10 min	
Read the test by holding the test tube approximately 3 cm in front of a lined scale on the card.	
