**Haemoglobin and Anemia**

1. **Hemoglobin Estimation:**

|  |  |  |
| --- | --- | --- |
| **Blank** | **Test** |  |
| 2 ml | 2 ml | **Hemoglobin reagent** |
| \_\_\_\_\_ | 0.01 ml ( 10µl) | **Blood sample** |
| Mix, allow to stand at room temperature for 3 min and read the absorbance at 540 nm against hemoglobin reagent |

 Hb conc (g/dl) = 29.4 x Abs of test

1. **Qualitative determination of hemoglobin S (HbS) in blood**

|  |  |
| --- | --- |
| **Reagent**  | **Volume**  |
| Sickling solution  | 2 ml  |
| Patient sample (whole blood)  | 0.02 ml (20 μl)  |
| **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.**  |