

HAEMOGLOBIN

Colorimetric Method

500 Tests

PRINCIPLE :

Haemoglobin reacts with potassium ferricyanide and potassium cyanide, and converted into cyanmethaemoglobin which can be measured colorimetrically .

SAMPLES :

Whole blood, fresh or collected in EDTA or heparin

NORMAL VALUES :

Childrens	11.2 – 12.9 g / dL (6.96 – 8.01 mmol/L)
Men	14 – 18 g / dL (8.7 – 11.2 mmol/L)
Women	12 – 16 g / dL (7.5 – 9.9 mmol/L)

DRABKIN'S REAGENT :

Potassium Ferricyanide	0.03 mol/ L
Potassium cyanide	0.04 mol/ L
Potassium dihydrogen phosphate	0.05 mol/ L
Detergent	
Standard: Additional Reagent	

STABILITY :

The reagents is stable up to the expiry date specified when stored at +4 to +8 °C in dark brown bottles .

PROCEDURE:

	Blank (ml)	Sample (ml)	Standard (ml)
Distilled water	2.5	2.5	2.5
Drabkin's reagents	-	0.05	-
Sample	-	0.01	-
Standard	-	-	0.06

Mix, allow to stand for 5 min. at R.T. The reaction mixture should not exposed to strong light. Measure the absorbance of sample (A_{Sample}) or Standard (A_{Standard}) against dist. water as blank at wave length 540 nm, using cuvettes 1 cm light path. The color intensity is stable for few hours at R.T. providing the test tubes are kept stoppered.

CALCULATION :

Haemoglobin Concentration

$$= A_{\text{Sample}} \times 36.77 \text{ (g/dL)}$$
$$= A_{\text{Sample}} \times 22.82 \text{ (mmol/L)}$$

Or

$$= \frac{A_{\text{Sample}}}{A_{\text{Standard}}} \times \text{Standard Conc.}$$

REFERENCES :

Drabkin : D. L. et al . (1932). J. Biol . chem.. 98. 719 .

HAEMOGLOBIN

Colorimetric Method
+4 to +8°C 500 Tests
In vitro diagnostic use

CAT. No. HG 14 10

REAGENTS

Drabkin's Reagent 1 x 25 ml

CONTACTS

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