

Using a sample of fresh normal blood a series of 10 dilutions were made of packed red cells in platelet poor plasma. 2 replicate analyses were performed by

spectrophotometer on each dilution and the mean results were plotted. (Table 1 and figure 2), with significant correlation ($r = 0.999$).

Table 1: The effect of dilution on measurement of SLS-Hb

Hb(g/l)	Slope	Intercept	Correlation coefficient(r)
SLS-Hb method	2.174	2.323	0.999

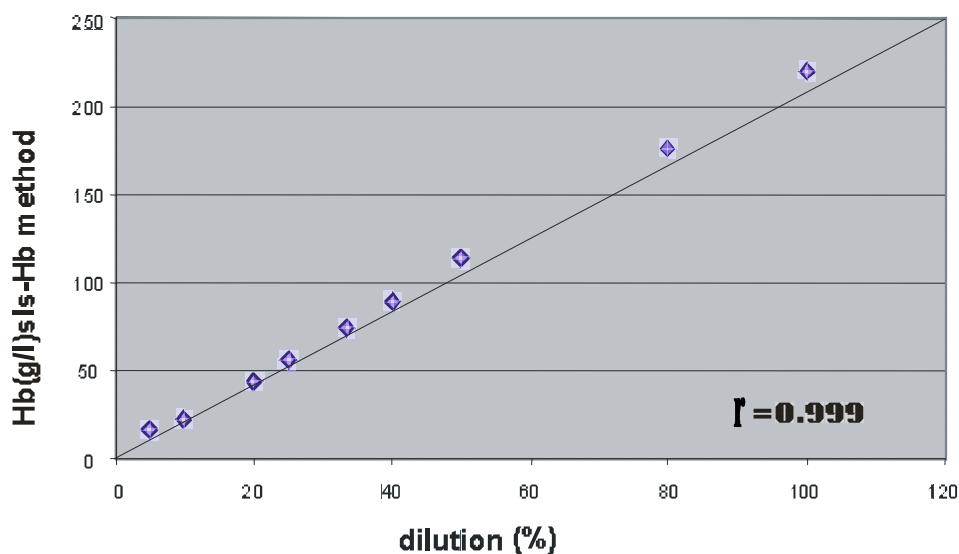


Figure 2: Showing the effect of dilution on measurement of SLS-Hb (linearity)

b. Comparability:

Results on 250 samples are shown in (Table 2 and figure. 3). Mean Hb (g/l) of 250 samples by SLS-Hb method was 116.9

± 31.05 (31-162), while the mean (g/l) by HiCN method was 116.84 ± 31.13 (31-162), with significant correlation ($r = 0.998$).

Table 2: Comparison of measurement of haemoglobin by SLS-Hb method and routine HiCN method

Method	No. of samples	Mean /SD (g/l)	Min (g/l)	Max (g/l)	Correlation (r)
Hb-SLS Method	250	116.9 ± 31.05	31	162	0.9983
HiCN Method	250	116.84 ± 31.13	31	162	

