

HEMOGLOBIN A1c

Turbidimetry

The application parameters comprised here constitute a guide to facilitate the validation of our reagents by the instrument. It is advisable to validate the use when there is any change in software or reagent versions.

Instruments: CHEMWELL

Samples

Capillary or venous blood collected by standard procedures and with heparin or EDTA as anticoagulants .

HbA1c in blood is stable 3 days at 15-25°C, 7 days at 2-8°C and 6 months at -20°C. Freeze once only.

Hemolysate preparation

The calibrators do not require pretreatment.

1. Bring the reagent A to room temperature.
2. Pipette into a test tube:

Blood	10 µL
Reagent (A)	1000 µL

3. Shake thoroughly. Avoid the formation of foam. The hemolysate can be used after the solution has changed color from red to brownish-green (approximately 3 minutes).

The hemolysate is stable 4 hours at 15-25°C, 24 hours at 2-8°C and 6 months at -20°C. Freeze once only.

Reagent preparation

Reagents (A), (B), (C) and (D) are provided ready to use.

HbA1c Standards (S1-S4): Reconstitute with 2.0 mL of distilled water.

Stable for 8 hours at 15-25 °C, 2 days at 2-8°C and 3 months at -20°C.

Freeze once only.

Hb Reagent 1: Reagent B
HbA1c Reagent 1: Reagent C Reagent 2: Reagent D

Instrument settings

Hb

		Hb	STEPS	
ASSAY NAME		Point by Point		
ASSAY MODE		545	SAMPLE VOLUME	30 uL
PRIMARY FILTER		700	STANDARD VOLUME	30 uL
SECONDARY FILTER			REAGENT 1 VOLUME	170 uL
BLANK	BLANK	Yes	REAGENT 2 VOLUME	0 uL
	DIFFERENTIAL BLANK	No	PREHEATING TIME	0 sec.
SAMPLE DUPLICATES		2	INCUBATION TIME (hh:mm:ss)	00:05:00
INTERPRETATION CONFIG.			READ	Yes
	POS/NEG INTERPRETATION	No		
	NORMAL / LINEAL RANGE	Yes		
	NORMAL	... to ...		
	LINEAL	1.1 to 40		
STANDARD INFORMATION				
	Nº DECIMLAS	1		
	UNITS	g/dL		
	Nº STD.	2		
	Std.1	0.0		
	Std.2	(*) S4		
AXES OPTIONS		Y=ABS , X=CONC		

Blank: Make reagent blank with sodium chloride 154 mmol/L (NaCl 0.9%).
(...) Data entered by the operator
(*) Enter the assigned value of the Standard S4.

