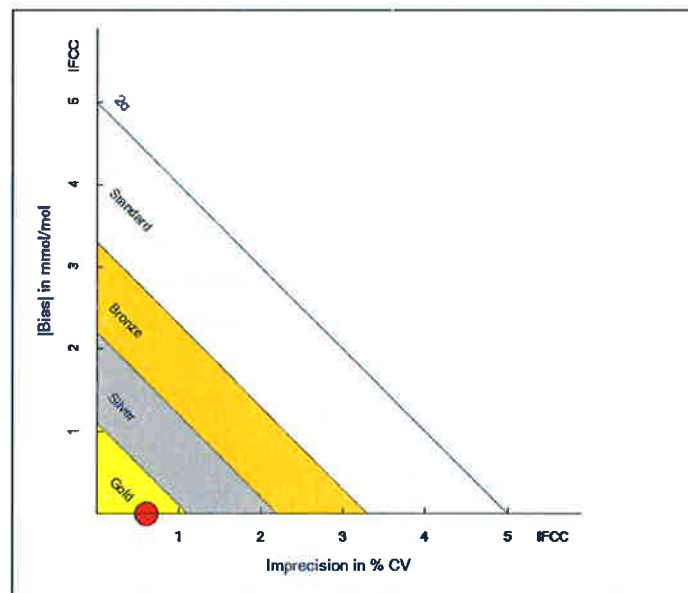


Certificate

Tosoh Corporation
 using
HLC-723GX

participated in the IFCC HbA1c Certification Programme to demonstrate
 traceability to the IFCC Reference Measurement Procedure and
 performed as shown below.



Total Error =	0.6	mmol/mol
Bias =	0.0	mmol/mol
Imprecision =	0.6	%
Grade =	Gold	

Criteria derived from the IFCC model for Quality Targets HbA1c (Clin Chem 2015;61 : 752-59)

Date of Certification : 01 January 2020

Date of Expiry : 01 January 2021


 IFCC Network Coordinator
 Dr. C.W. Weykamp

Summary Analytical Performance

Organisation Tosoh Corporation
Instrument HLC-723GX
Date Of Certification 01 January 2020

Bias
at 30 mmol/mol -0.3 mmol/mol
at 50 mmol/mol 0.0 mmol/mol
at 70 mmol/mol 0.3 mmol/mol

Imprecision CV 0.6 %
Linearity r 0.9999
Total Error TE 0.6 mmol/mol

Analytical Performance Individual Samples

Sample ID	Target Value	Your Result	Your Bias
01	48.0	48.0	0.0
02	45.8	45.7	-0.1
03	43.1	43.0	-0.1
04	101.7	103.4	1.7
05	55.5	55.9	0.4
06	71.2	71.4	0.2
07	50.3	50.9	0.6
08	81.4	82.2	0.8
09	35.8	35.6	-0.2
10	58.4	58.3	-0.1
11	40.6	40.3	-0.3
12	71.2	71.6	0.4
13	55.5	55.7	0.2
14	96.3	97.1	0.8
15	61.3	60.9	-0.4
16	45.8	45.7	-0.1
17	66.3	66.3	0.0
18	30.9	30.4	-0.5
19	86.3	86.7	0.4
20	50.3	50.6	0.3
21	52.9	53.1	0.2
22	76.3	76.9	0.6
23	40.6	40.5	-0.1
24	91.1	90.9	-0.2

* Only if applicable: Blunder, excluded from the calculations