

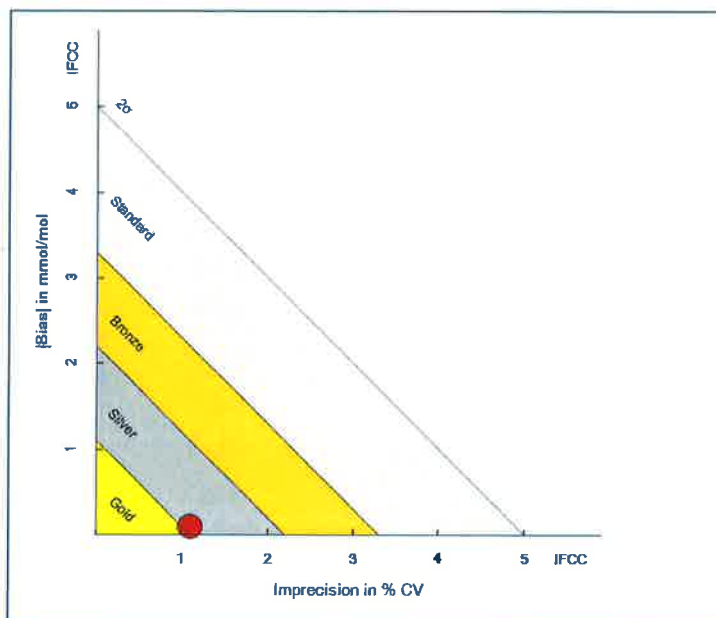
Certificate

Tosoh Corporation

using

HLC-723G11

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

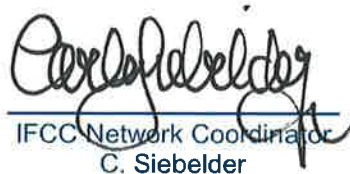


Total Error =	1.2	mmol/mol
Bias =	+0.1	mmol/mol
Imprecision =	1.1	%
Grade =	Silver	

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

Date of Certification : 01 January 2024

Date of Expiry : 01 January 2025


IFCC Network Coordinator
C. Siebelder

Summary Analytical Performance

Organisation Tosoh Corporation
Instrument HLC-723G11
Date Of Certification 01 January 2024

Bias
at 30 mmol/mol 0.1 mmol/mol
at 50 mmol/mol 0.1 mmol/mol
at 70 mmol/mol 0.0 mmol/mol

Imprecision CV 1.1 %
Linearity r 0.9994
Total Error TE 1.2 mmol/mol

Analytical Performance Individual Samples

Sample ID	Target Value	Your Result	Your Bias
01	46.3	45.8	-0.5
02	43.8	43.1	-0.7
03	41.0	41.0	0.0
04	98.3	97.3	-1.0
05	53.1	53.7	0.6
06	67.8	68.7	0.9
07	49.1	48.3	-0.8
08	77.9	78.0	0.1
09	34.9	34.8	-0.1
10	55.3	56.3	1.0
11	38.2	38.6	0.4
12	67.8	68.6	0.8
13	53.1	53.4	0.3
14	93.5	92.6	-0.9
15	57.5	58.4	0.9
16	43.8	43.3	-0.5
17	62.8	63.7	0.9
18	31.6	30.7	-0.9
19	83.4	83.1	-0.3
20	77.9	78.2	0.3
21	51.1	51.1	0.0
22	72.9	73.5	0.6
23	57.5	58.4	0.9
24	88.8	88.4	-0.4

* Only if applicable: Blunder, excluded from the calculations