

Glucose · analyzer comparability

Glucose (mg/dL) · Analyzer comparability ✓ Criteria met

Instrument **Analyzers A–C** Reference **Analyzer A** Study date **Sep 22, 2026**

Table 1. Acceptance criteria

Question	Limit	Allowed	Finding	Result
Specimen differences	At least 95% of specimens within ±6 mg/dL at each analyzer		2 of 2 analyzers within	✓ Met

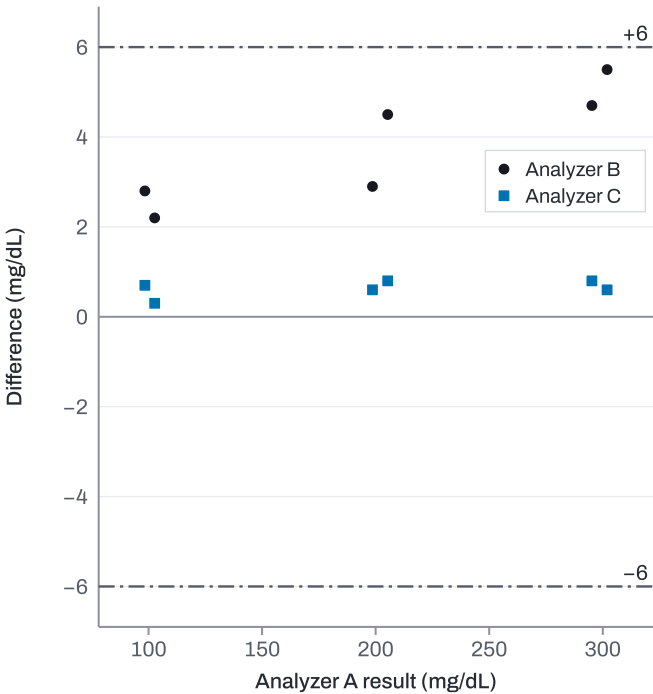


Figure 1. Difference from Analyzer A by concentration.

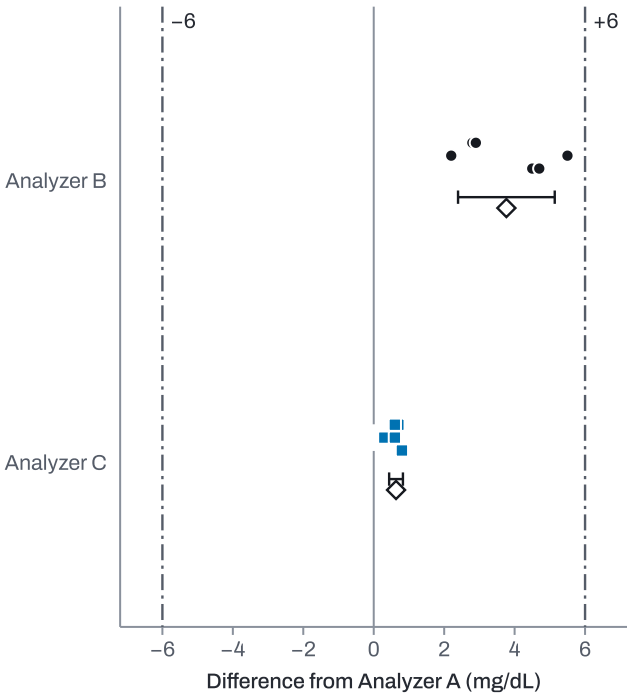


Figure 2. Differences by analyzer; open diamond: mean, 95% CI.

Table 2. Agreement with Analyzer A (mg/dL)

Analyzer	Mean difference	95% CI	Largest difference	Specimen	Within limit	Required	Result
Analyzer B	+3.77	2.39–5.14	+5.50	S05	6 of 6	6 of 6	✓ Met
Analyzer C	+0.63	0.44–0.83	+0.80	S03	6 of 6	6 of 6	✓ Met

Specimens span 98.4–301.9 mg/dL on Analyzer A. Each difference is the analyzer’s result minus Analyzer A’s.

Study details

Matrix Serum	Method Hexokinase	Reagent lot GLU-R2609
Calibrator lot GLU-C2609	Data 18 included	Design 6 specimens × 3 analyzers

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Signed off by

Oct 23, 2026, 13:23 UTC

Date

A Data listing

Source: comparability.csv. 18 rows, all included.

Study row	Specimen	Analyzer	Level	Result (mg/dL)	Source row
1	S01	Analyzer A	1	98.4	2
2	S01	Analyzer B	1	101.2	3
3	S01	Analyzer C	1	99.1	4
4	S02	Analyzer A	1	102.7	5
5	S02	Analyzer B	1	104.9	6
6	S02	Analyzer C	1	103.0	7
7	S03	Analyzer A	2	205.3	8
8	S03	Analyzer B	2	209.8	9
9	S03	Analyzer C	2	206.1	10
10	S04	Analyzer A	2	198.6	11
11	S04	Analyzer B	2	201.5	12
12	S04	Analyzer C	2	199.2	13
13	S05	Analyzer A	3	301.9	14
14	S05	Analyzer B	3	307.4	15
15	S05	Analyzer C	3	302.5	16
16	S06	Analyzer A	3	295.2	17
17	S06	Analyzer B	3	299.9	18
18	S06	Analyzer C	3	296.0	19

1 Results

1.1 Differences by specimen

Table 3. Differences by specimen (mg/dL)

Specimen	Analyzer A	Analyzer B difference	Result	Analyzer C difference	Result
S01	98.4	+2.80	✓	+0.70	✓
S02	102.7	+2.20	✓	+0.30	✓
S03	205.3	+4.50	✓	+0.80	✓
S04	198.6	+2.90	✓	+0.60	✓
S05	301.9	+5.50	✓	+0.60	✓
S06	295.2	+4.70	✓	+0.80	✓

1.2 Differences by analyzer and level

Table 4. Spread of the differences from Analyzer A (mg/dL)

Analyzer	Specimens	SD	95% limits of agreement
Analyzer B	6	1.31	1.20–6.33
Analyzer C	6	0.186	0.27–1.00

About 95% of an analyzer's specimen differences are expected within its limits of agreement.

Table 5. Mean difference by concentration level (mg/dL)

Analyzer	Level	Specimens	Mean difference	SD
Analyzer B	1	2	+2.50	0.424
Analyzer B	2	2	+3.70	1.13
Analyzer B	3	2	+5.10	0.566
Analyzer C	1	2	+0.50	0.283
Analyzer C	2	2	+0.70	0.141
Analyzer C	3	2	+0.70	0.141