

Glucose · method comparison

Glucose (mg/dL) · Method comparison ✓ Criteria met

3 of 3 questions judged · Specimen differences, Slope and Bias at 126 mg/dL met

Instrument **Chemistry analyzer A** Comparator **Laboratory analyzer B** 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 or $\pm 8\%$ of the comparative result, whichever is greater		19 of 20 within	✓ Met
Slope	Between 0.95 and 1.05		1.013 1.010–1.015	✓ Met
Bias at 126 mg/dL	Within ± 6 mg/dL		+3.19 mg/dL 2.41–3.98	✓ Met

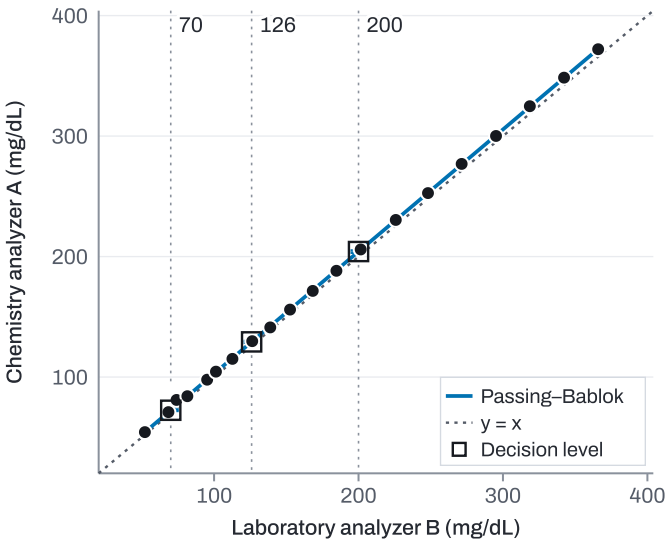


Figure 1. Test against comparative method.

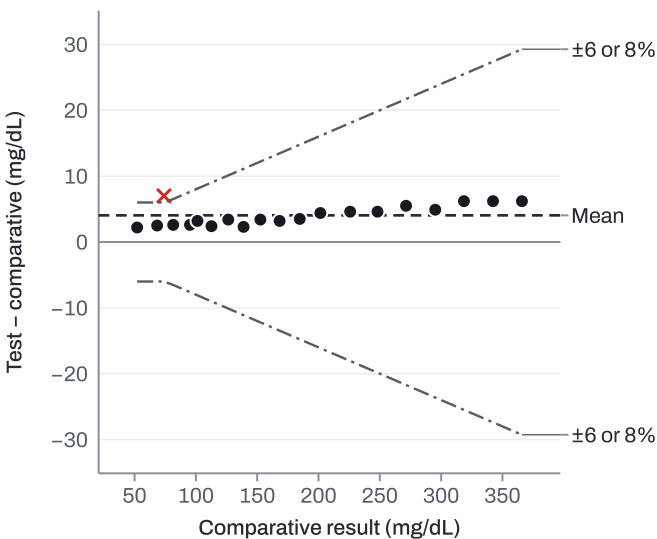


Figure 2. Differences; dash-dot: allowed difference; dashed: mean difference; x: outside it.

Table 2. Regression and bias

Estimate	Value	95% CI
Intercept (mg/dL)	+1.51	1.16–2.07
Bias at 70 mg/dL	+2.44	1.85–3.13
Bias at 200 mg/dL	+4.17	3.14–5.10
Mean bias (mg/dL)	+4.05	3.33–4.76

Study details

Matrix	Serum	Method	Hexokinase
Reagent lot	GLU-R2609	Calibrator lot	GLU-C2609
Data	20 included	Replicates	Single
Regression	Passing-Bablok		
Comparative range	52.1–365.9 mg/dL		
Decision levels	70, 126, 200 mg/dL		

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Signed off by

Oct 23, 2026, 13:23 UTC

Date

A Data listing

Source: comparison.csv. 20 rows, all included.

Study row	Specimen	Comparative (mg/dL)	Test (mg/dL)	Source row
1	00001	52.1	54.3	2
2	00002	68.4	70.9	3
3	00003	74.0	81.0	4
4	00004	81.5	84.1	5
5	00005	95.2	97.8	6
6	00006	101.3	104.5	7
7	00007	112.7	115.1	8
8	00008	126.4	129.8	9
9	00009	138.9	141.2	10
10	00010	152.6	156.0	11
11	00011	168.3	171.5	12
12	00012	184.7	188.2	13
13	00013	201.5	205.9	14
14	00014	225.8	230.4	15
15	00015	248.1	252.7	16
16	00016	271.4	276.9	17
17	00017	295.2	300.1	18
18	00018	318.6	324.8	19
19	00019	342.3	348.5	20
20	00020	365.9	372.1	21

1 Results

1.1 Specimen decisions

Table 3. Specimen decisions

Specimen	Comparative (mg/dL)	Difference (mg/dL)	Allowed difference (mg/dL)	Outcome
00001	52.1	+2.20	±6.00	✓ Met
00002	68.4	+2.50	±6.00	✓ Met
00003	74.0	+7.00	±6.00	✗ Not met
00004	81.5	+2.60	±6.52	✓ Met
00005	95.2	+2.60	±7.62	✓ Met
00006	101.3	+3.20	±8.10	✓ Met
00007	112.7	+2.40	±9.02	✓ Met
00008	126.4	+3.40	±10.11	✓ Met
00009	138.9	+2.30	±11.11	✓ Met
00010	152.6	+3.40	±12.21	✓ Met
00011	168.3	+3.20	±13.46	✓ Met
00012	184.7	+3.50	±14.78	✓ Met
00013	201.5	+4.40	±16.12	✓ Met
00014	225.8	+4.60	±18.06	✓ Met

Table 3. Specimen decisions

Specimen	Comparative (mg/dL)	Difference (mg/dL)	Allowed difference (mg/dL)	Outcome
00015	248.1	+4.60	±19.85	✓ Met
00016	271.4	+5.50	±21.71	✓ Met
00017	295.2	+4.90	±23.62	✓ Met
00018	318.6	+6.20	±25.49	✓ Met
00019	342.3	+6.20	±27.38	✓ Met
00020	365.9	+6.20	±29.27	✓ Met

Difference = test – comparative.

1.2 Differences and limits of agreement

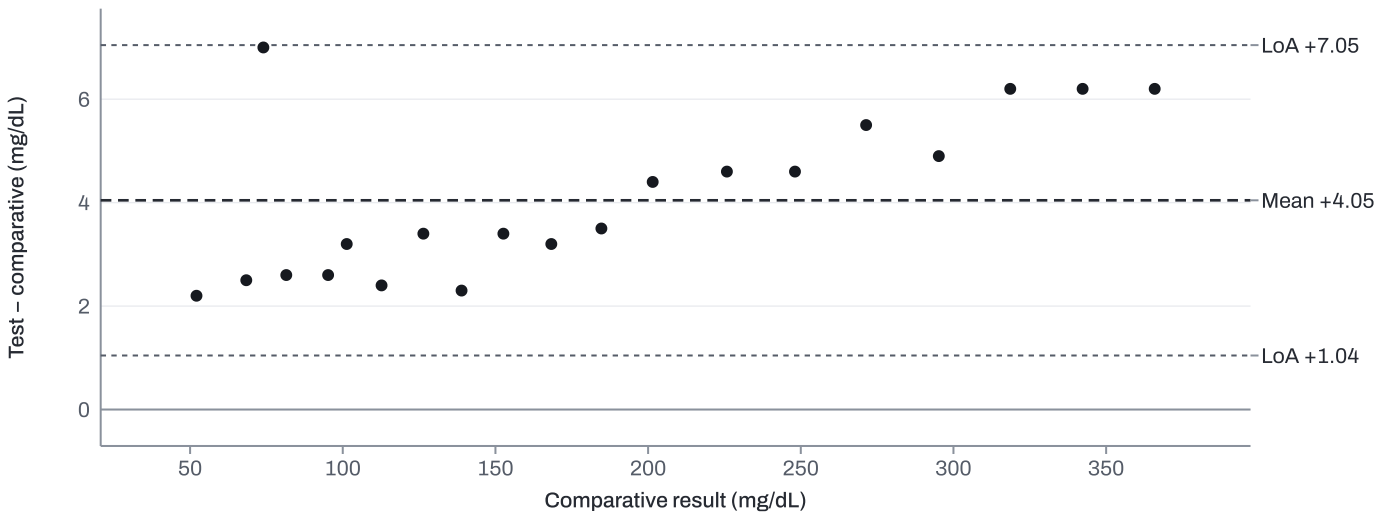


Figure 3. Test – comparative, with the mean and 95% limits of agreement.

Table 4. 95% limits of agreement for individual differences

Estimate	Difference (mg/dL)	95% CI (mg/dL)	Relative (%)	95% CI (%)
SD of differences	1.53			
Lower limit of agreement	+1.04	–0.20 to 2.29	–0.71	–2.12 to 0.70
Upper limit of agreement	+7.05	5.80–8.29	+6.12	4.71–7.53

Relative differences are percentages of the comparative result.

1.3 Ranges and fit details

Table 5. Ranges and fit details

Item	Value
Test range	54.3–372.1 mg/dL
Decision-level CIs	From the slope and intercept confidence region