

Glucose · calibration verification

Glucose (mg/dL) · Calibration verification ✓ Criteria met

2 of 2 questions judged · Accuracy and Range coverage met

Instrument **Chemistry analyzer A** Study date **Sep 22, 2026**

Table 1. Acceptance criteria

Question	Limit	Allowed	Finding	Result
Accuracy	Each mean within its bias limit; each replicate within its replicate limit		3 of 3 materials within	✓ Met
Range coverage	Low and high within 10% of 10 and 200 mg/dL (or zero at the low end), with a middle material		Covered	✓ Met

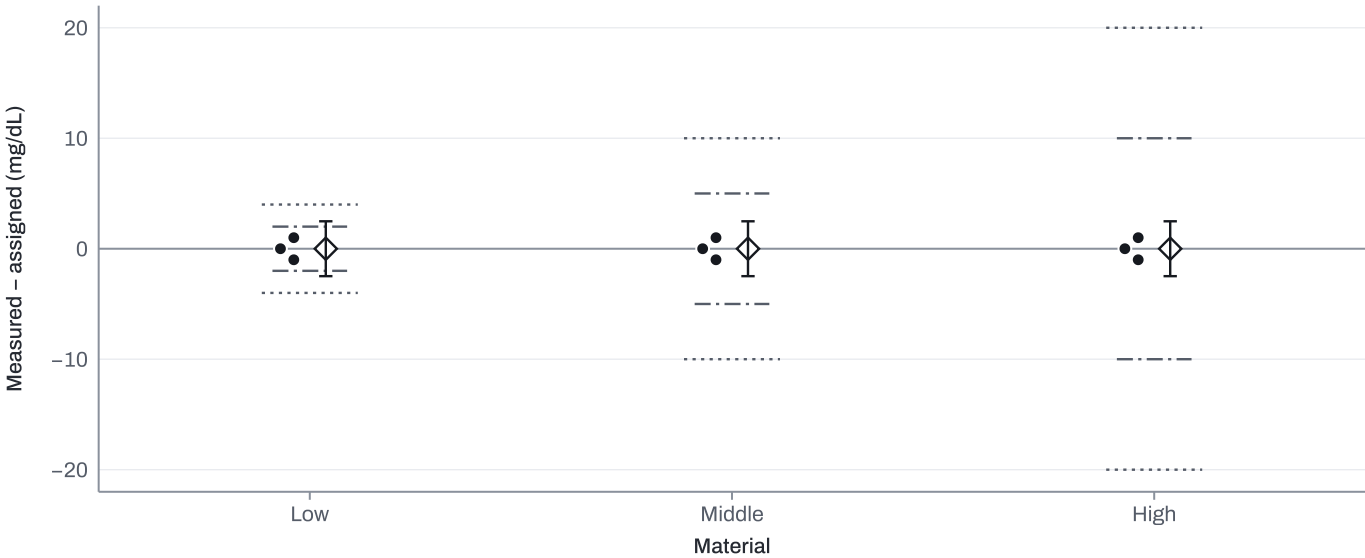


Figure 1. Difference from the assigned value at each level: dots, each replicate; open diamonds, the mean with its 95% CI; dash-dot ticks, allowed bias of the mean; dotted ticks, allowed error of each replicate.

Table 2. Accuracy by material

Level	Assigned (mg/dL)	Mean (mg/dL)	Bias (mg/dL)	Bias limit (mg/dL)	Replicate limit (mg/dL)	Within / total	Accuracy
Low	10	10.0	0.0	2.0	4.0	3/3 within	✓ Met
Middle	100	100.0	0.0	5.0	10.0	3/3 within	✓ Met
High	200	200.0	0.0	10.0	20.0	3/3 within	✓ Met

Study details

Matrix	Serum	Data	9 included	Design	3 material levels
--------	-------	------	------------	--------	-------------------

alex.rivera@example.test

Signed off by

Oct 23, 2026, 13:23 UTC

Date

A Data listing

Source: calibration_verification.csv. 9 rows, all included. Every row: within total-error allowance.

Study row	Level	Result (mg/dL)	Replicate	Source row
1	Low	9	1	2
2	Low	10	2	3
3	Low	11	3	4
4	Middle	99	1	5
5	Middle	100	2	6
6	Middle	101	3	7
7	High	199	1	8
8	High	200	2	9
9	High	201	3	10

1 Results

1.1 Supporting estimates

Table 3. Intervals and error allowances

Level	Mean 95% CI (mg/dL)	Bias (%)	Recovery (%)	SD (mg/dL)
Low	7.5–12.5	0.0	100.0	1.00
Middle	97.5–102.5	0.0	100.0	1.00
High	197.5–202.5	0.0	100.0	1.00

1.2 Range coverage · Middle material: Middle.

Table 4. Endpoint coverage

Endpoint	Window (mg/dL)	Material	Result
Lower	9.0–11.0	Low	✓ Met
Upper	180.0–220.0	High	✓ Met