

# Glucose · multi-day precision · Chemistry analyzer A

Glucose (mg/dL) · Multi-day precision    ✓ Criteria met

Instrument **Chemistry analyzer A (CA-41027)**      Study date **Sep 8, 2026**

Table 1. Acceptance criteria

| Question             | Limit                                          | Allowed | Finding              | Result |
|----------------------|------------------------------------------------|---------|----------------------|--------|
| Within-laboratory SD | Level 1 SD ≤ 1.8 mg/dL; Level 2 SD ≤ 5.7 mg/dL |         | 2 of 2 levels within | ✓ Met  |

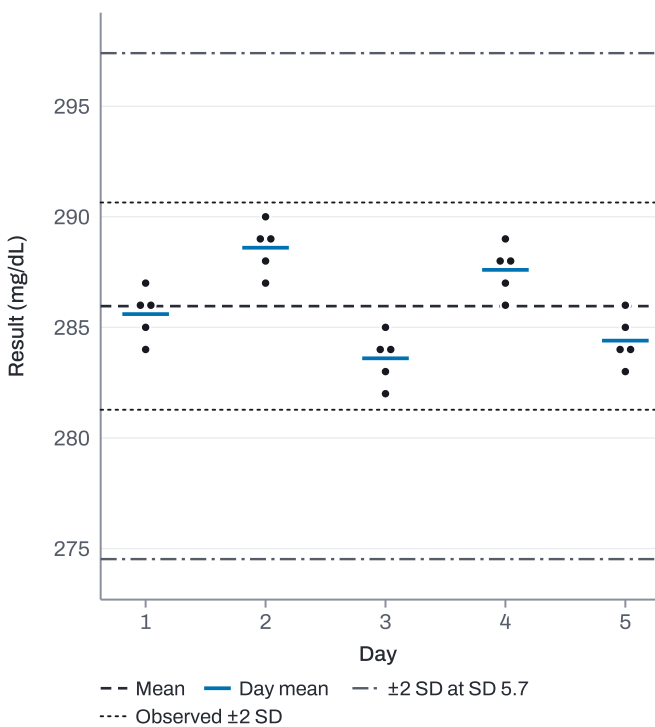
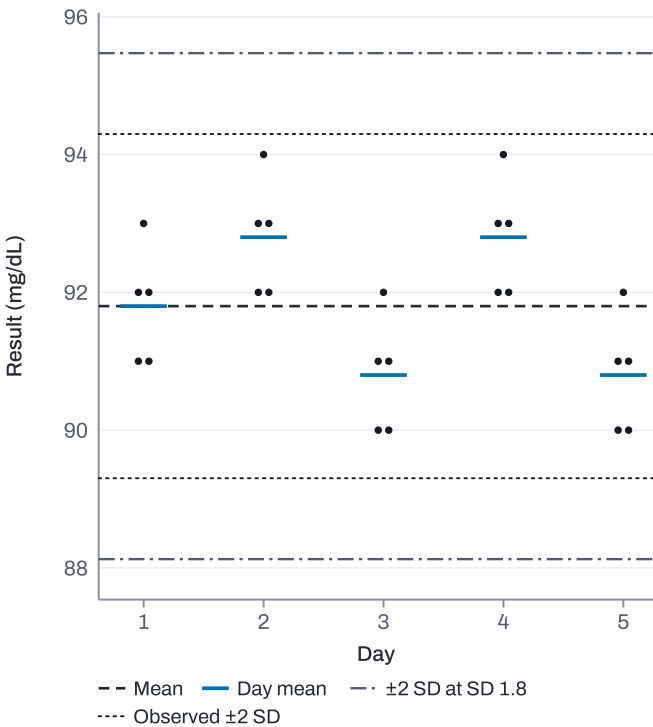


Table 2. Results by level (mg/dL)

| Level | Mean  | Repeatability SD | Repeatability CV (%) | Within-lab SD | Within-lab CV (%) | Result |
|-------|-------|------------------|----------------------|---------------|-------------------|--------|
| 1     | 91.8  | 0.837            | 0.9                  | 1.25          | 1.4               | ✓ Met  |
| 2     | 286.0 | 1.14             | 0.4                  | 2.34          | 0.8               | ✓ Met  |

## Study details

|                                 |                          |                                             |
|---------------------------------|--------------------------|---------------------------------------------|
| Matrix <b>Serum</b>             | Method <b>Hexokinase</b> | Reagent lot <b>GLU-R2609</b>                |
| Calibrator lot <b>GLU-C2609</b> | Data <b>50 included</b>  | Design <b>5 days × 1 run × 5 replicates</b> |

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Signed off by

Oct 23, 2026, 13:25 UTC

Date

## A    Data listing

Source: CHEM-A\_QC-2611\_days-1-5\_20260912.csv. 50 rows, all included.

| Study row | Specimen   | Level | Result (mg/dL) | Day | Replicate | Source row |
|-----------|------------|-------|----------------|-----|-----------|------------|
| 1         | QC-2611 L1 | 1     | 92             | 1   | 1         | 2          |
| 2         | QC-2611 L1 | 1     | 91             | 1   | 2         | 3          |
| 3         | QC-2611 L1 | 1     | 93             | 1   | 3         | 4          |
| 4         | QC-2611 L1 | 1     | 92             | 1   | 4         | 5          |
| 5         | QC-2611 L1 | 1     | 91             | 1   | 5         | 6          |
| 6         | QC-2611 L1 | 1     | 93             | 2   | 1         | 7          |
| 7         | QC-2611 L1 | 1     | 94             | 2   | 2         | 8          |
| 8         | QC-2611 L1 | 1     | 92             | 2   | 3         | 9          |
| 9         | QC-2611 L1 | 1     | 93             | 2   | 4         | 10         |
| 10        | QC-2611 L1 | 1     | 92             | 2   | 5         | 11         |
| 11        | QC-2611 L1 | 1     | 91             | 3   | 1         | 12         |
| 12        | QC-2611 L1 | 1     | 90             | 3   | 2         | 13         |
| 13        | QC-2611 L1 | 1     | 92             | 3   | 3         | 14         |
| 14        | QC-2611 L1 | 1     | 91             | 3   | 4         | 15         |
| 15        | QC-2611 L1 | 1     | 90             | 3   | 5         | 16         |
| 16        | QC-2611 L1 | 1     | 92             | 4   | 1         | 17         |
| 17        | QC-2611 L1 | 1     | 93             | 4   | 2         | 18         |
| 18        | QC-2611 L1 | 1     | 92             | 4   | 3         | 19         |
| 19        | QC-2611 L1 | 1     | 94             | 4   | 4         | 20         |
| 20        | QC-2611 L1 | 1     | 93             | 4   | 5         | 21         |
| 21        | QC-2611 L1 | 1     | 90             | 5   | 1         | 22         |
| 22        | QC-2611 L1 | 1     | 91             | 5   | 2         | 23         |
| 23        | QC-2611 L1 | 1     | 92             | 5   | 3         | 24         |
| 24        | QC-2611 L1 | 1     | 91             | 5   | 4         | 25         |
| 25        | QC-2611 L1 | 1     | 90             | 5   | 5         | 26         |
| 26        | QC-2611 L2 | 2     | 286            | 1   | 1         | 27         |
| 27        | QC-2611 L2 | 2     | 284            | 1   | 2         | 28         |
| 28        | QC-2611 L2 | 2     | 287            | 1   | 3         | 29         |
| 29        | QC-2611 L2 | 2     | 285            | 1   | 4         | 30         |
| 30        | QC-2611 L2 | 2     | 286            | 1   | 5         | 31         |
| 31        | QC-2611 L2 | 2     | 289            | 2   | 1         | 32         |
| 32        | QC-2611 L2 | 2     | 290            | 2   | 2         | 33         |
| 33        | QC-2611 L2 | 2     | 288            | 2   | 3         | 34         |
| 34        | QC-2611 L2 | 2     | 287            | 2   | 4         | 35         |
| 35        | QC-2611 L2 | 2     | 289            | 2   | 5         | 36         |
| 36        | QC-2611 L2 | 2     | 283            | 3   | 1         | 37         |
| 37        | QC-2611 L2 | 2     | 285            | 3   | 2         | 38         |
| 38        | QC-2611 L2 | 2     | 284            | 3   | 3         | 39         |
| 39        | QC-2611 L2 | 2     | 282            | 3   | 4         | 40         |
| 40        | QC-2611 L2 | 2     | 284            | 3   | 5         | 41         |
| 41        | QC-2611 L2 | 2     | 287            | 4   | 1         | 42         |
| 42        | QC-2611 L2 | 2     | 288            | 4   | 2         | 43         |
| 43        | QC-2611 L2 | 2     | 286            | 4   | 3         | 44         |

| Study row | Specimen   | Level | Result (mg/dL) | Day | Replicate | Source row |
|-----------|------------|-------|----------------|-----|-----------|------------|
| 44        | QC-2611 L2 | 2     | 289            | 4   | 4         | 45         |
| 45        | QC-2611 L2 | 2     | 288            | 4   | 5         | 46         |
| 46        | QC-2611 L2 | 2     | 284            | 5   | 1         | 47         |
| 47        | QC-2611 L2 | 2     | 283            | 5   | 2         | 48         |
| 48        | QC-2611 L2 | 2     | 285            | 5   | 3         | 49         |
| 49        | QC-2611 L2 | 2     | 286            | 5   | 4         | 50         |
| 50        | QC-2611 L2 | 2     | 284            | 5   | 5         | 51         |

# 1 Results

## 1.1 Results by day

Table 3. Results by day (mg/dL)

| Day | Level 1 mean | Level 1 SD | Level 2 mean | Level 2 SD |
|-----|--------------|------------|--------------|------------|
| 1   | 91.8         | 0.837      | 285.6        | 1.14       |
| 2   | 92.8         | 0.837      | 288.6        | 1.14       |
| 3   | 90.8         | 0.837      | 283.6        | 1.14       |
| 4   | 92.8         | 0.837      | 287.6        | 1.14       |
| 5   | 90.8         | 0.837      | 284.4        | 1.14       |

5 results on each day.

## 1.2 Additional estimates

Table 4. Median, range, variance components and mean interval (mg/dL)

| Level | Median | Lowest–highest | Between-day/run SD | Mean 95% CI |
|-------|--------|----------------|--------------------|-------------|
| 1     | 92.0   | 90–94          | 0.927              | 90.6–93.0   |
| 2     | 286.0  | 282–290        | 2.05               | 283.3–288.6 |

# 2 Study notes

1. With one run per day, the between-day/run SD combines day and run effects.