

# Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - June 2025 -

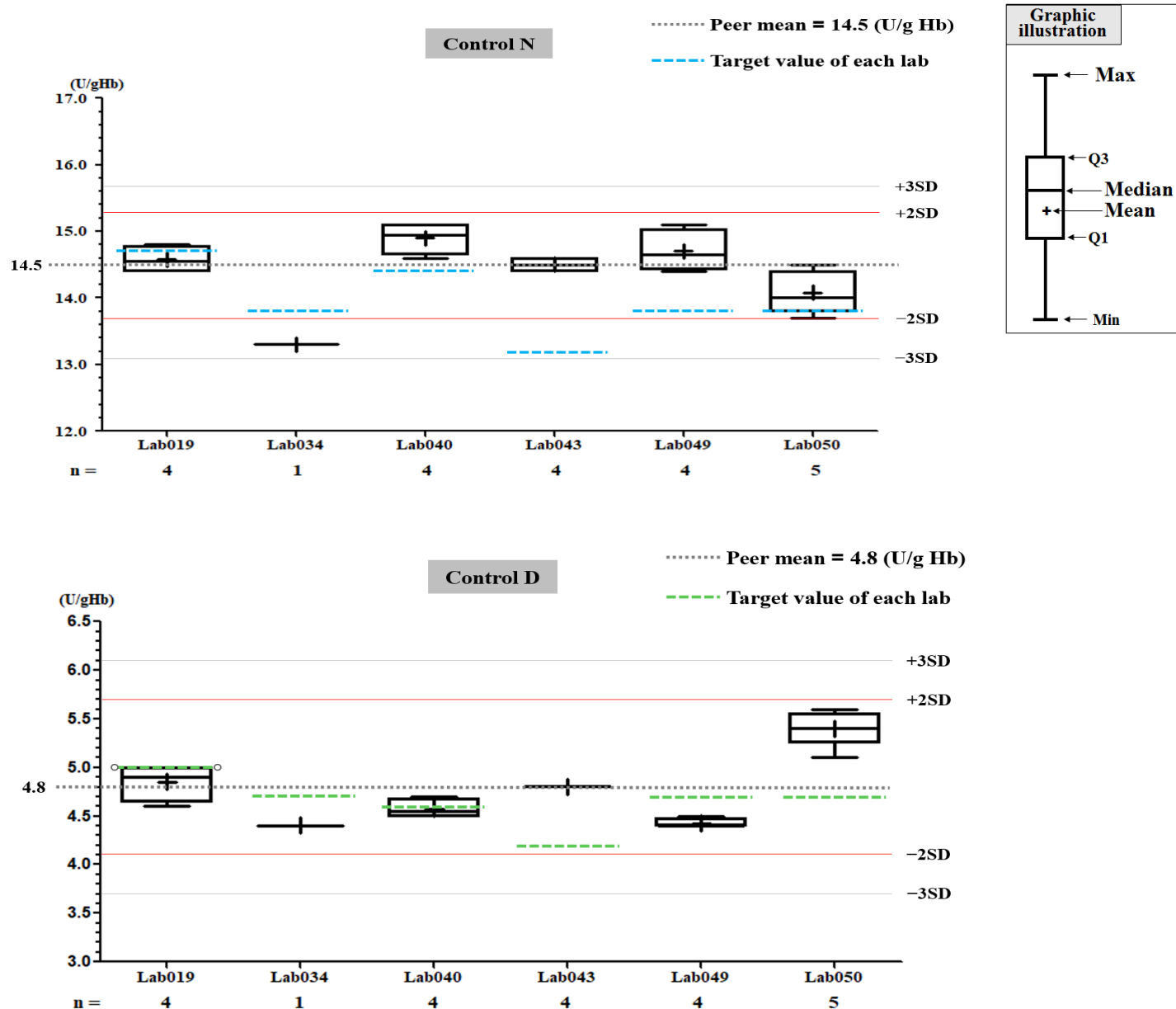
## I. The statistic results of all laboratories in this month

| G6PD                        | Control N<br>(Lot No.:BJ0922N) | Control D<br>(Lot No.: BJ0922D) |
|-----------------------------|--------------------------------|---------------------------------|
| Labs                        | 6                              | 6                               |
| Received results number (n) | 22                             | 22                              |
| Median                      | 14.5 (U/g Hb)                  | 4.8 (U/g Hb)                    |
| Mean                        | 14.5 (U/g Hb)                  | 4.8 (U/g Hb)                    |
| SD                          | 0.4                            | 0.4                             |
| CV                          | 2.8%                           | 8.3%                            |
| Range of G6PD               | 13.3 ~ 15.1 (U/g Hb)           | 4.4 ~ 5.6 (U/g Hb)              |
| Range of Hb                 | 2.0 ~ 2.6 (g/dL)               | 1.8 ~ 2.3 (g/dL)                |

\*The statistic results are calculated from all labs reported in this month

\*\* G6PD Method = Medicon reagent kit, 37°C

## II. The distribution of G6PD reported for each lab in this survey



QC Chart of Internal Quality Control (IQC)for G6PD Quantitative Test

Select LotNo : BJ0922N (2021-01-01 ~ 2100-12-31) Change

Print Table

Lab050

|                           | Control N          |                                | Control D          |                                |
|---------------------------|--------------------|--------------------------------|--------------------|--------------------------------|
| QC Control Lot No.        | BJ0922N            |                                | BJ0922D            |                                |
| Duration of the Analyzing | Month<br>(2025/06) | CUM<br>(2025/02/16~2025/06/28) | Month<br>(2025/06) | CUM<br>(2025/02/16~2025/06/28) |
| Runs (N)                  | 5                  | 26                             | 5                  | 26                             |
| Mean (U/gHb)              | 14.1               | 14.3                           | 5.4                | 5.3                            |
| SD                        | 0.3                | 0.5                            | 0.2                | 0.3                            |
| CV (%)                    | 2.1                | 3.5                            | 3.7                | 5.7                            |
| Target Value (U/gHb)      | 13.8               | 13.8                           | 4.7                | 4.7                            |
| Total Error (%)           | 6.4                | 10.6                           | 22.3               | 24.1                           |
| TEa (%)                   | 20                 | 20                             | 20                 | 20                             |
| σ                         | >6                 | 4.7                            | 1.4                | 1.3                            |

Bias (%) = [ ( | Mean - Target | ) / Target ] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%) ] / CV (%)

Month : 2025 06 Change ; Cumulative : from 2025 02 16 to 2025 06 28 Change

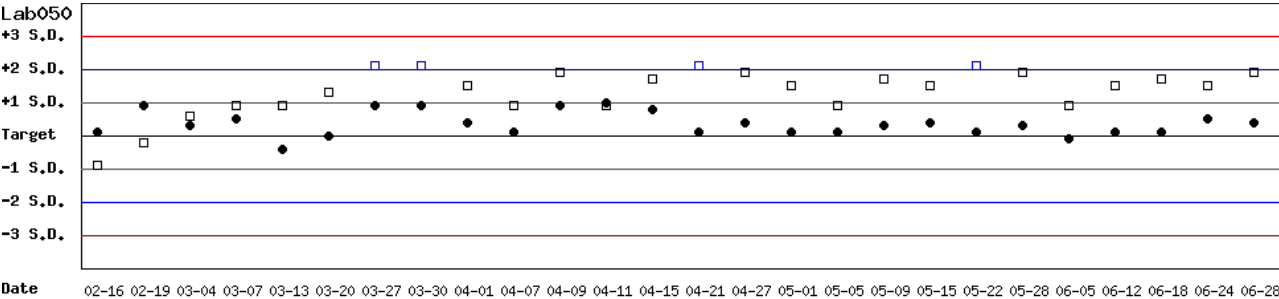
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Control N and Control D SDI  
QC Chart

Lot No.: BJ0922N ; Duration : 2025-02-16 to 2025-06-28 ; Target : 13.8 ; SD : 1.38 ( ● )

Lot No.: BJ0922D ; Duration : 2025-02-16 to 2025-06-28 ; Target : 4.7 ; SD : 0.47 ( □ )

Lab050



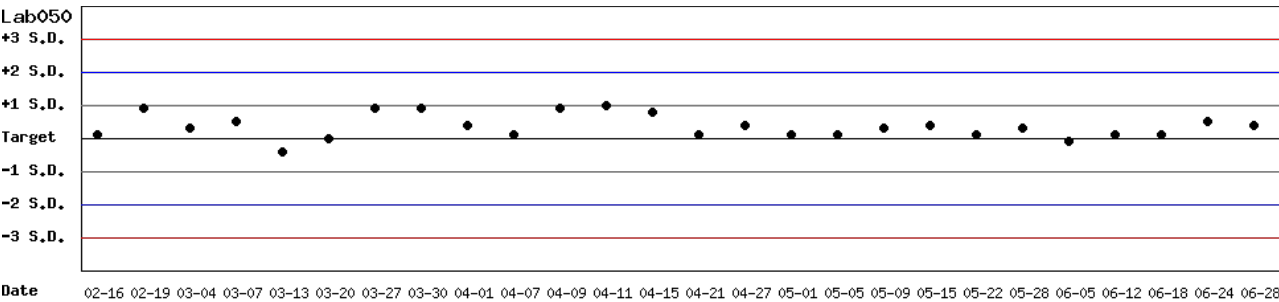
Month : 2025 06 Change ; Cumulative : from 2025 02 16 to 2025 06 28 Change

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Control N SDI QC Chart

Lot No.: BJ0922N ; Duration : 2025-02-16 to 2025-06-28 ; Target : 13.8 ; SD : 1.38

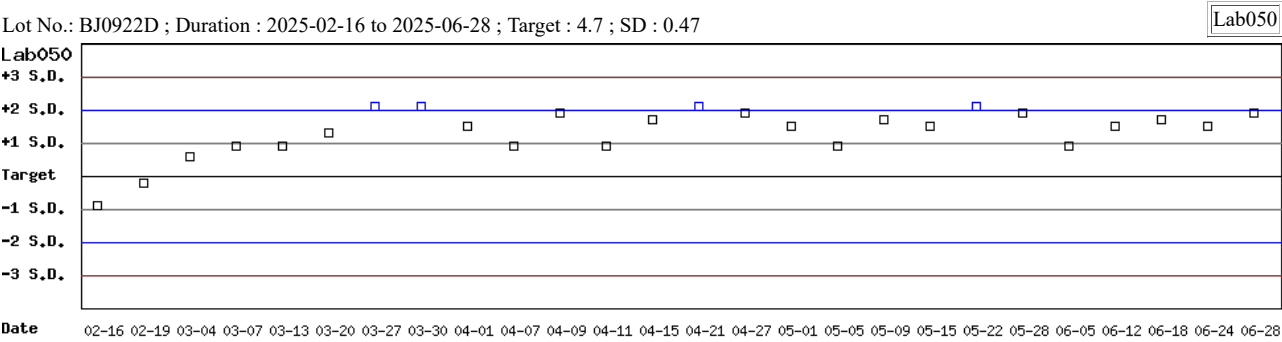
Lab050



Month : 2025 06 Change ; Cumulative : from 2025 02 16 to 2025 06 28 Change

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Control D SDI QC Chart



Month : 2025 06 Change ; Cumulative : from 2025 02 16 to 2025 06 28 Change

# Peer Group Statistics (Table 1)

Select LotNo : BJ0922N (2021-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

[Print Table 1](#)

## Monthly

Month : 2025 06 Change

|                        |                    | Control N (Lot No.: BJ0922N) |              |            |     |        |        |         |    |  | Control D (Lot No.: BJ0922D) |              |            |     |        |        |         |     |
|------------------------|--------------------|------------------------------|--------------|------------|-----|--------|--------|---------|----|--|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
| UnitID                 | Reagent Kit (Code) | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | σ  |  | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | σ   |
| <a href="#">Lab019</a> | 5                  | 14.7                         | 14.6         | 4          | 0.2 | 1.4    | 3.4    | 20      | >6 |  | 5.0                          | 4.9          | 4          | 0.2 | 4.1    | 10.2   | 20      | 4.4 |
| <a href="#">Lab034</a> | 5                  | 13.8                         | 13.3         | 1          | -   | -      | -      | 20      | -  |  | 4.7                          | 4.4          | 1          | -   | -      | -      | 20      | -   |
| <a href="#">Lab040</a> | 5                  | 14.4                         | 14.9         | 4          | 0.2 | 1.3    | 6.2    | 20      | >6 |  | 4.6                          | 4.6          | 4          | 0.1 | 2.2    | 4.3    | 20      | >6  |
| <a href="#">Lab043</a> | 5                  | 13.2                         | 14.5         | 4          | 0.1 | 0.7    | 11.2   | 20      | >6 |  | 4.2                          | 4.8          | 4          | 0.0 | 0.0    | 14.3   | 20      | >6  |
| <a href="#">Lab049</a> | 5                  | 13.8                         | 14.7         | 4          | 0.3 | 2.0    | 10.6   | 20      | >6 |  | 4.7                          | 4.4          | 4          | 0.1 | 2.3    | 10.9   | 20      | 5.9 |
| <a href="#">Lab050</a> | 5                  | 13.8                         | 14.1         | 5          | 0.3 | 2.1    | 6.4    | 20      | >6 |  | 4.7                          | 5.4          | 5          | 0.2 | 3.7    | 22.3   | 20      | 1.4 |
| Total                  | -                  | -                            | 14.5         | 22         | 0.4 | 2.8    | -      | -       | -  |  | -                            | 4.8          | 22         | 0.4 | 8.3    | -      | -       | -   |

Bias (%) = [ ( | Mean - Target | ) / Target ] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%) ] / CV (%)

[\[TOP\]](#)

## Cumulative

Cumulative : from 2021 01 01 to 2025 06 30 Change

|                        |                    | Control N (Lot No.: BJ0922N) |              |            |     |        |        |         |     |  | Control D (Lot No.: BJ0922D) |              |            |     |        |        |         |     |
|------------------------|--------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|--|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
| UnitID                 | Reagent Kit (Code) | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | σ   |  | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | σ   |
| <a href="#">Lab018</a> | 5                  | 16.2                         | 15.3         | 113        | 0.4 | 2.6    | 10.8   | 20      | 5.6 |  | 5.5                          | 5.4          | 113        | 0.1 | 1.9    | 5.5    | 20      | >6  |
| <a href="#">Lab019</a> | 5                  | 14.7                         | 14.6         | 170        | 0.5 | 3.4    | 7.5    | 20      | 5.7 |  | 5.0                          | 4.8          | 170        | 0.2 | 4.2    | 12.3   | 20      | 3.8 |
| <a href="#">Lab020</a> | 5                  | 14.4                         | 14.4         | 90         | 0.5 | 3.5    | 6.9    | 20      | 5.7 |  | 4.6                          | 4.7          | 90         | 0.2 | 4.3    | 10.7   | 20      | 4.1 |
| <a href="#">Lab022</a> | 5                  | 14.4                         | 14.4         | 27         | 0.5 | 3.5    | 6.9    | 20      | 5.7 |  | 4.6                          | 4.7          | 27         | 0.3 | 6.4    | 14.9   | 20      | 2.8 |
| <a href="#">Lab025</a> | 5                  | 14.4                         | 14.2         | 13         | 0.5 | 3.5    | 8.4    | 20      | 5.3 |  | 5.4                          | 5.1          | 13         | 0.3 | 5.9    | 17.3   | 20      | 2.4 |
| <a href="#">Lab028</a> | 5                  | 15.2                         | 15.0         | 66         | 0.9 | 6.0    | 13.3   | 20      | 3.1 |  | 4.9                          | 5.1          | 66         | 0.3 | 5.9    | 15.8   | 20      | 2.7 |
| <a href="#">Lab032</a> | 5                  | 14.9                         | 14.3         | 153        | 0.4 | 2.8    | 9.6    | 20      | 5.7 |  | 4.8                          | 4.5          | 153        | 0.2 | 4.4    | 15.1   | 20      | 3.1 |
| <a href="#">Lab033</a> | 5                  | 13.8                         | 13.6         | 81         | 0.7 | 5.1    | 11.7   | 20      | 3.6 |  | 4.7                          | 4.6          | 81         | 0.3 | 6.5    | 15.2   | 20      | 2.7 |
| <a href="#">Lab034</a> | 5                  | 13.8                         | 14.4         | 39         | 0.6 | 4.2    | 12.7   | 20      | 3.7 |  | 4.7                          | 5.2          | 39         | 0.3 | 5.8    | 22.2   | 20      | 1.6 |
| <a href="#">Lab037</a> | 5                  | 13.8                         | 14.5         | 59         | 0.5 | 3.4    | 12.0   | 20      | 4.4 |  | 4.7                          | 4.7          | 59         | 0.2 | 4.3    | 8.5    | 20      | 4.7 |
| <a href="#">Lab040</a> | 5                  | 14.4                         | 14.8         | 165        | 0.2 | 1.4    | 5.5    | 20      | >6  |  | 4.6                          | 4.6          | 165        | 0.1 | 2.2    | 4.3    | 20      | >6  |
| <a href="#">Lab043</a> | 5                  | 13.2                         | 14.0         | 196        | 1.0 | 7.1    | 20.3   | 20      | 2.0 |  | 4.2                          | 4.7          | 196        | 0.4 | 8.5    | 28.9   | 20      | 1.0 |
| <a href="#">Lab049</a> | 5                  | 13.8                         | 14.4         | 264        | 0.6 | 4.2    | 12.7   | 20      | 3.7 |  | 4.7                          | 4.7          | 264        | 0.3 | 6.4    | 12.8   | 20      | 3.1 |
| <a href="#">Lab050</a> | 5                  | 13.8                         | 14.4         | 98         | 0.6 | 4.2    | 12.7   | 20      | 3.7 |  | 4.7                          | 5.1          | 98         | 0.5 | 9.8    | 28.1   | 20      | 1.2 |
| Total                  | -                  | -                            | 14.5         | 1534       | 0.7 | 4.8    | -      | -       | -   |  | -                            | 4.8          | 1534       | 0.4 | 8.3    | -      | -       | -   |

Bias (%) = [ ( | Mean - Target | ) / Target ] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%) ] / CV (%)

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Medicon     | 5            |

Peer Group Statistics (Table 2)

Select LotNo : BJ0922N (2021-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 2

Control N Month vs. Cumulative

|                                                                                          |                                                                                                         | Control N (Lot No.: BJ0922N) |                 |               |     |           |           |            |    |                   |                             |               |     |           |           |            |     |  |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------------|-----|-----------|-----------|------------|----|-------------------|-----------------------------|---------------|-----|-----------|-----------|------------|-----|--|
|                                                                                          |                                                                                                         | Month (2025/06)              |                 |               |     |           |           |            |    |                   | CUM (2021/01/01~2025/06/30) |               |     |           |           |            |     |  |
| UnitID  | Reagent Kit<br>(Code)  | Target<br>(U/gHb)            | Mean<br>(U/gHb) | n for<br>Mean | SD  | CV<br>(%) | TE<br>(%) | TEa<br>(%) | σ  | Target<br>(U/gHb) | Mean<br>(U/gHb)             | n for<br>Mean | SD  | CV<br>(%) | TE<br>(%) | TEa<br>(%) | σ   |  |
| <a href="#">Lab018</a>                                                                   | 5                                                                                                       | 16.2                         | -               | 0             | -   | -         | -         | 20         | -  | 16.2              | 15.3                        | 113           | 0.4 | 2.6       | 10.8      | 20         | 5.6 |  |
| <a href="#">Lab019</a>                                                                   | 5                                                                                                       | 14.7                         | 14.6            | 4             | 0.2 | 1.4       | 3.4       | 20         | >6 | 14.7              | 14.6                        | 170           | 0.5 | 3.4       | 7.5       | 20         | 5.7 |  |
| <a href="#">Lab020</a>                                                                   | 5                                                                                                       | 14.4                         | -               | 0             | -   | -         | -         | 20         | -  | 14.4              | 14.4                        | 90            | 0.5 | 3.5       | 6.9       | 20         | 5.7 |  |
| <a href="#">Lab022</a>                                                                   | 5                                                                                                       | 14.4                         | -               | 0             | -   | -         | -         | 20         | -  | 14.4              | 14.4                        | 27            | 0.5 | 3.5       | 6.9       | 20         | 5.7 |  |
| <a href="#">Lab025</a>                                                                   | 5                                                                                                       | 14.4                         | -               | 0             | -   | -         | -         | 20         | -  | 14.4              | 14.2                        | 13            | 0.5 | 3.5       | 8.4       | 20         | 5.3 |  |
| <a href="#">Lab028</a>                                                                   | 5                                                                                                       | 15.2                         | -               | 0             | -   | -         | -         | 20         | -  | 15.2              | 15.0                        | 66            | 0.9 | 6.0       | 13.3      | 20         | 3.1 |  |
| <a href="#">Lab032</a>                                                                   | 5                                                                                                       | 14.9                         | -               | 0             | -   | -         | -         | 20         | -  | 14.9              | 14.3                        | 153           | 0.4 | 2.8       | 9.6       | 20         | 5.7 |  |
| <a href="#">Lab033</a>                                                                   | 5                                                                                                       | 13.8                         | -               | 0             | -   | -         | -         | 20         | -  | 13.8              | 13.6                        | 81            | 0.7 | 5.1       | 11.7      | 20         | 3.6 |  |
| <a href="#">Lab034</a>                                                                   | 5                                                                                                       | 13.8                         | 13.3            | 1             | -   | -         | -         | 20         | -  | 13.8              | 14.4                        | 39            | 0.6 | 4.2       | 12.7      | 20         | 3.7 |  |
| <a href="#">Lab037</a>                                                                   | 5                                                                                                       | 13.8                         | -               | 0             | -   | -         | -         | 20         | -  | 13.8              | 14.5                        | 59            | 0.5 | 3.4       | 12.0      | 20         | 4.4 |  |
| <a href="#">Lab040</a>                                                                   | 5                                                                                                       | 14.4                         | 14.9            | 4             | 0.2 | 1.3       | 6.2       | 20         | >6 | 14.4              | 14.8                        | 165           | 0.2 | 1.4       | 5.5       | 20         | >6  |  |
| <a href="#">Lab043</a>                                                                   | 5                                                                                                       | 13.2                         | 14.5            | 4             | 0.1 | 0.7       | 11.2      | 20         | >6 | 13.2              | 14.0                        | 196           | 1.0 | 7.1       | 20.3      | 20         | 2.0 |  |
| <a href="#">Lab049</a>                                                                   | 5                                                                                                       | 13.8                         | 14.7            | 4             | 0.3 | 2.0       | 10.6      | 20         | >6 | 13.8              | 14.4                        | 264           | 0.6 | 4.2       | 12.7      | 20         | 3.7 |  |
| <a href="#">Lab050</a>                                                                   | 5                                                                                                       | 13.8                         | 14.1            | 5             | 0.3 | 2.1       | 6.4       | 20         | >6 | 13.8              | 14.4                        | 98            | 0.6 | 4.2       | 12.7      | 20         | 3.7 |  |
| Total                                                                                    | -                                                                                                       | -                            | 14.5            | 22            | 0.4 | 2.8       | -         | -          | -  | -                 | 14.5                        | 1534          | 0.7 | 4.8       | -         | -          | -   |  |

Bias (%) = [ ( | Mean - Target | ) / Target ] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%) ] / CV (%)

Month : 2025 06 Change

Cumulative : from 2021 01 01 to 2025 06 30 Change

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Control D Month vs. Cumulative

|                                                                                            |                                                                                                        | Control D (Lot No.: BJ0922D) |              |            |     |        |        |         |     |  |                             |              |            |     |        |        |         |     |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|--|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
|                                                                                            |                                                                                                        | Month (2025/06)              |              |            |     |        |        |         |     |  | CUM (2021/01/01~2025/06/30) |              |            |     |        |        |         |     |
| UnitID  | Reagent Kit (Code)  | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | σ   |  | Target (U/gHb)              | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | σ   |
| <a href="#">Lab018</a>                                                                     | 5                                                                                                      | 5.5                          | -            | 0          | -   | -      | -      | 20      | -   |  | 5.5                         | 5.4          | 113        | 0.1 | 1.9    | 5.5    | 20      | >6  |
| <a href="#">Lab019</a>                                                                     | 5                                                                                                      | 5.0                          | 4.9          | 4          | 0.2 | 4.1    | 10.2   | 20      | 4.4 |  | 5.0                         | 4.8          | 170        | 0.2 | 4.2    | 12.3   | 20      | 3.8 |
| <a href="#">Lab020</a>                                                                     | 5                                                                                                      | 4.6                          | -            | 0          | -   | -      | -      | 20      | -   |  | 4.6                         | 4.7          | 90         | 0.2 | 4.3    | 10.7   | 20      | 4.1 |
| <a href="#">Lab022</a>                                                                     | 5                                                                                                      | 4.6                          | -            | 0          | -   | -      | -      | 20      | -   |  | 4.6                         | 4.7          | 27         | 0.3 | 6.4    | 14.9   | 20      | 2.8 |
| <a href="#">Lab025</a>                                                                     | 5                                                                                                      | 5.4                          | -            | 0          | -   | -      | -      | 20      | -   |  | 5.4                         | 5.1          | 13         | 0.3 | 5.9    | 17.3   | 20      | 2.4 |
| <a href="#">Lab028</a>                                                                     | 5                                                                                                      | 4.9                          | -            | 0          | -   | -      | -      | 20      | -   |  | 4.9                         | 5.1          | 66         | 0.3 | 5.9    | 15.8   | 20      | 2.7 |
| <a href="#">Lab032</a>                                                                     | 5                                                                                                      | 4.8                          | -            | 0          | -   | -      | -      | 20      | -   |  | 4.8                         | 4.5          | 153        | 0.2 | 4.4    | 15.1   | 20      | 3.1 |
| <a href="#">Lab033</a>                                                                     | 5                                                                                                      | 4.7                          | -            | 0          | -   | -      | -      | 20      | -   |  | 4.7                         | 4.6          | 81         | 0.3 | 6.5    | 15.2   | 20      | 2.7 |
| <a href="#">Lab034</a>                                                                     | 5                                                                                                      | 4.7                          | 4.4          | 1          | -   | -      | -      | 20      | -   |  | 4.7                         | 5.2          | 39         | 0.3 | 5.8    | 22.2   | 20      | 1.6 |
| <a href="#">Lab037</a>                                                                     | 5                                                                                                      | 4.7                          | -            | 0          | -   | -      | -      | 20      | -   |  | 4.7                         | 4.7          | 59         | 0.2 | 4.3    | 8.5    | 20      | 4.7 |
| <a href="#">Lab040</a>                                                                     | 5                                                                                                      | 4.6                          | 4.6          | 4          | 0.1 | 2.2    | 4.3    | 20      | >6  |  | 4.6                         | 4.6          | 165        | 0.1 | 2.2    | 4.3    | 20      | >6  |
| <a href="#">Lab043</a>                                                                     | 5                                                                                                      | 4.2                          | 4.8          | 4          | 0.0 | 0.0    | 14.3   | 20      | >6  |  | 4.2                         | 4.7          | 196        | 0.4 | 8.5    | 28.9   | 20      | 1.0 |
| <a href="#">Lab049</a>                                                                     | 5                                                                                                      | 4.7                          | 4.4          | 4          | 0.1 | 2.3    | 10.9   | 20      | 5.9 |  | 4.7                         | 4.7          | 264        | 0.3 | 6.4    | 12.8   | 20      | 3.1 |
| <a href="#">Lab050</a>                                                                     | 5                                                                                                      | 4.7                          | 5.4          | 5          | 0.2 | 3.7    | 22.3   | 20      | 1.4 |  | 4.7                         | 5.1          | 98         | 0.5 | 9.8    | 28.1   | 20      | 1.2 |
| Total                                                                                      | -                                                                                                      | -                            | 4.8          | 22         | 0.4 | 8.3    | -      | -       | -   |  | -                           | 4.8          | 1534       | 0.4 | 8.3    | -      | -       | -   |

Bias (%) = [ ( | Mean - Target | ) / Target ] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%) ] / CV (%)

Month : 2025 06 Change

Cumulative : from 2021 01 01 to 2025 06 30 Change

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Medicon     | 5            |