

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

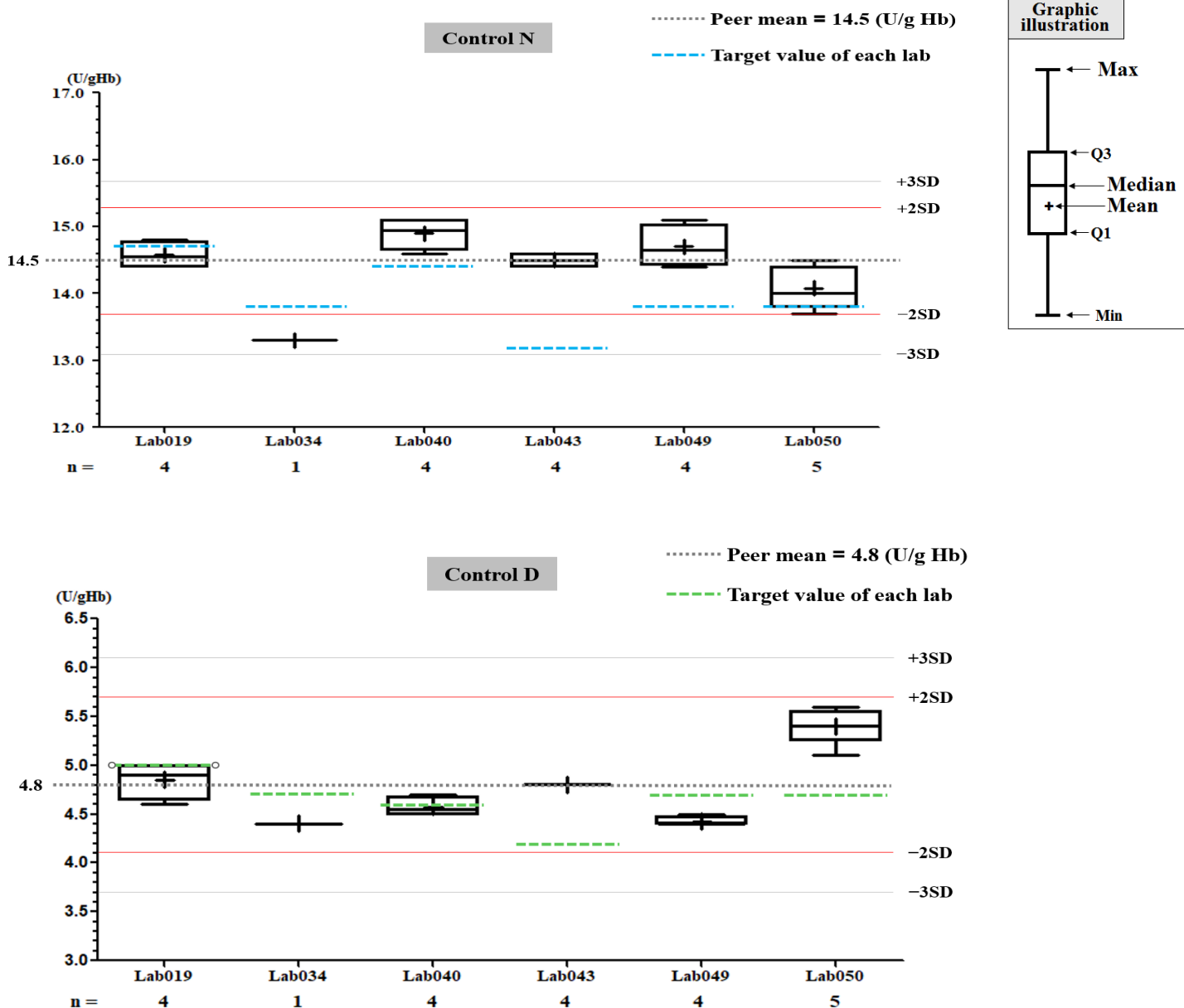
## I. The statistic results of all laboratories in this month

| 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



G6PD 定量檢驗內部品管統計結果及 SDI 分佈圖

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

列印圖表

檢驗單位 : Lab040

| QC Control Lot No. | Control N          |                                | Control D          |                                |
|--------------------|--------------------|--------------------------------|--------------------|--------------------------------|
|                    | BJ0922N            |                                | BJ0922D            |                                |
| 檢驗期間               | Month<br>(2025/06) | CUM<br>(2024/12/27~2025/06/28) | Month<br>(2025/06) | CUM<br>(2024/12/27~2025/06/28) |
| 累計點數 (N)           | 4                  | 26                             | 4                  | 26                             |
| 累計平均值 (Mean) U/gHb | 14.9               | 14.8                           | 4.6                | 4.6                            |
| 累計標準差 (SD)         | 0.2                | 0.2                            | 0.1                | 0.1                            |
| 累計變異係數 (CV) %      | 1.3                | 1.4                            | 2.2                | 2.2                            |
| 目標值 (Target) U/gHb | 14.4               | 14.4                           | 4.6                | 4.6                            |
| 總誤差 (TE) %         | 6.2                | 5.5                            | 4.3                | 4.3                            |
| 可容許總誤差 (TEa) %     | 20                 | 20                             | 20                 | 20                             |
| σ                  | >6                 | >6                             | >6                 | >6                             |

誤差 (Bias)% = { [ | 累計平均值 (Mean) - 目標值 (Target) | ] / 目標值 (Target) } x 100%  
總誤差 (TE, Total Error)% = 誤差 (Bias)% + 2 x 累計變異係數 (CV)  
σ (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

月統計 : 2025 06 Change ; 累計期間 (CUM) : 自 2024 12 27 至 2025 06 28 Change

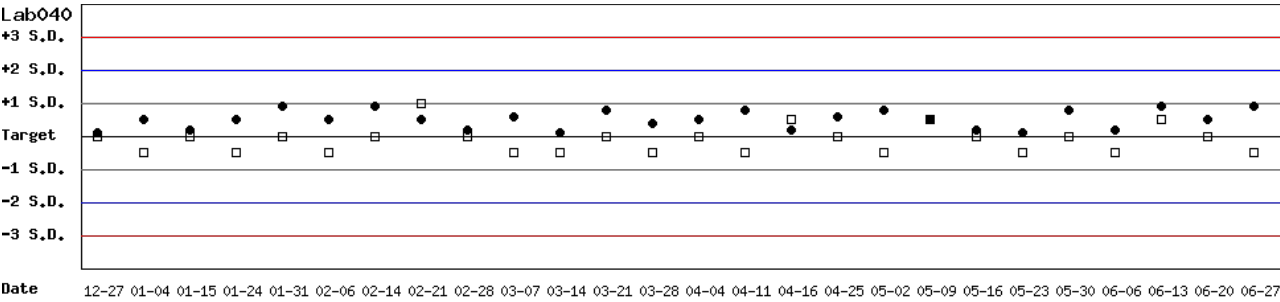
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Control N 及 Control D SDI 分佈圖

Lot No.: BJ0922N ; 檢驗期間 : 2024-12-27 至 2025-06-28 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.80 ( ● )

Lot No.: BJ0922D ; 檢驗期間 : 2024-12-27 至 2025-06-28 ; 目標值 (Target) : 4.6 ; 參考標準差 (SD) : 0.20 ( □ )

單位 : Lab040



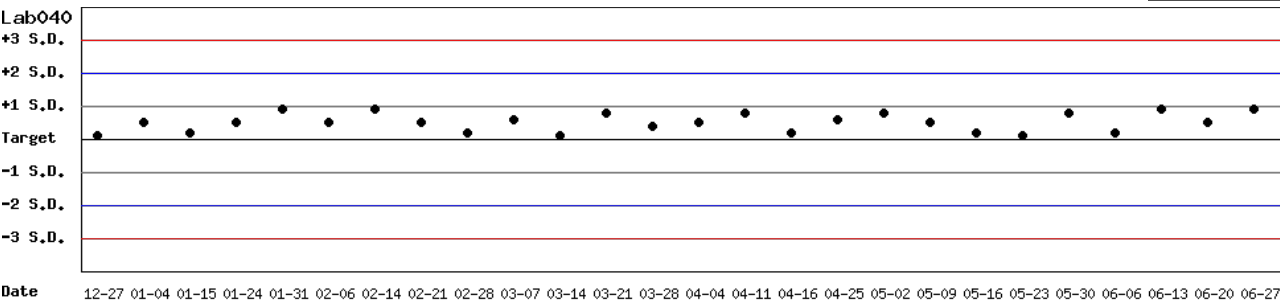
月統計 : 2025 06 Change ; 累計期間 (CUM) : 自 2024 12 27 至 2025 06 28 Change

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Control N SDI 分佈圖

Lot No.: BJ0922N ; 檢驗期間 : 2024-12-27 至 2025-06-28 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.80

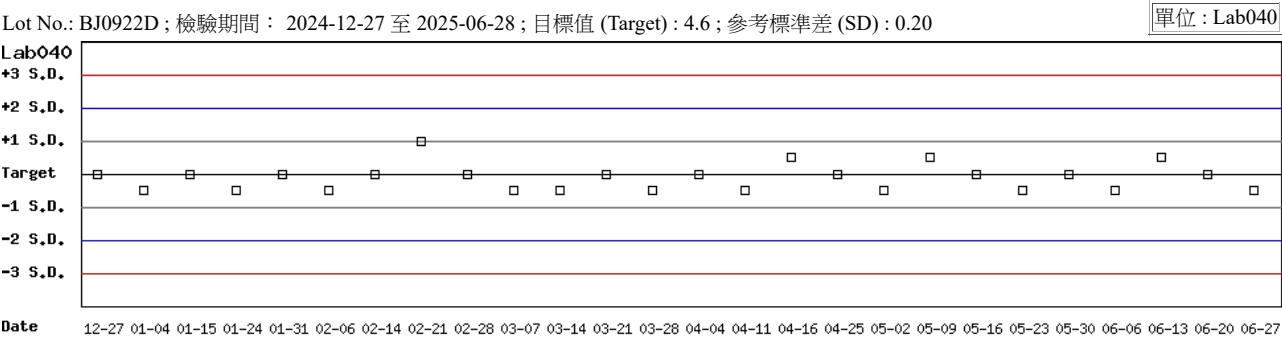
單位 : Lab040



月統計 : 2025 06 Change ; 累計期間 (CUM) : 自 2024 12 27 至 2025 06 28 Change

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Control D SDI 分佈圖



月統計 : 2025 06 Change ; 累計期間 (CUM) : 自 2024 12 27 至 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 (%)

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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)                                                             |                                                                                                      |                 |              |            |     |        |        |         |    |                             |              |            |     |        |        |         |     |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------|--------------|------------|-----|--------|--------|---------|----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| UnitID  | Reagent Kit (Code)  | Month (2025/06) |              |            |     |        |        |         |    | CUM (2021/01/01~2025/06/30) |              |            |     |        |        |         |     |
|                                                                                          |                                                                                                      | 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            | -            | 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)                                                               |                                                                                                        |                 |              |            |     |        |        |         |     |                             |              |            |     |        |        |         |     |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| UnitID  | Reagent Kit (Code)  | Month (2025/06) |              |            |     |        |        |         |     | CUM (2021/01/01~2025/06/30) |              |            |     |        |        |         |     |
|                                                                                            |                                                                                                        | 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            |