

# 2022年07月 G6PD 定量檢驗 實驗室內部品管計畫報告

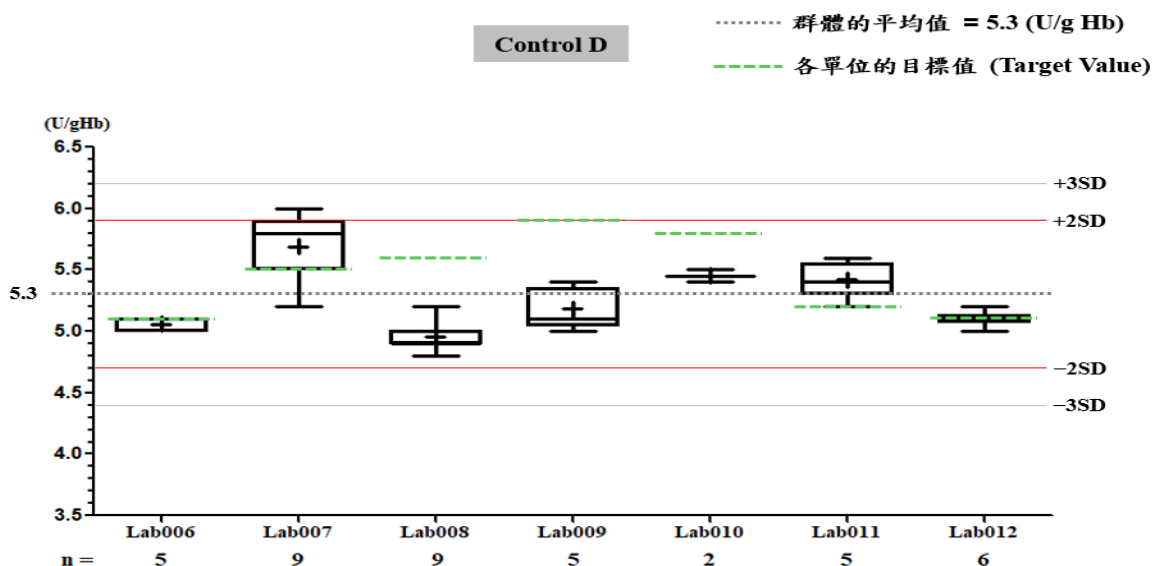
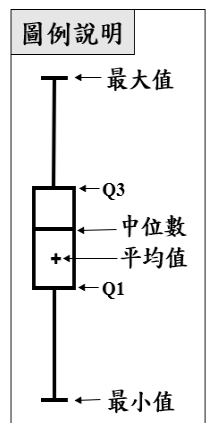
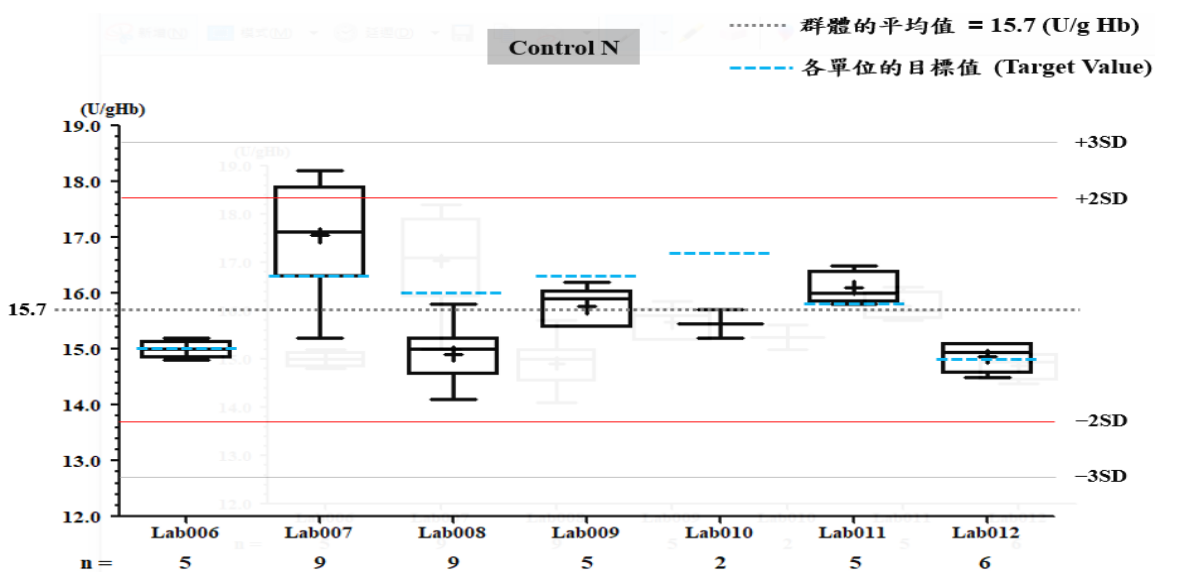
## 一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD         | Control N<br>(Lot No.:BJ0922N) | Control D<br>(Lot No.: BJ0922D) |
|--------------|--------------------------------|---------------------------------|
| 參加單位         | 7                              | 7                               |
| 總回報數 (n)     | 41                             | 41                              |
| 中位數 (Median) | 15.3 (U/g Hb)                  | 5.1 (U/g Hb)                    |
| 平均值 (Mean)   | 15.7 (U/g Hb)                  | 5.3 (U/g Hb)                    |
| 標準差 (SD)     | 1.0                            | 0.3                             |
| 變異係數 (CV)    | 6.4%                           | 5.7%                            |
| G6PD 檢驗值範圍   | 14.1 ~ 18.2 (U/g Hb)           | 4.8 ~ 6.0 (U/g Hb)              |
| Hb 檢驗值範圍     | 2.1 ~ 2.7 (g/dL)               | 1.8 ~ 2.3 (g/dL)                |

\*統計值為該月全體單位回報的所有數據總合計算所得

\*\* G6PD Method = Lanner kit, 37°C

## 二、各檢驗單位本月實驗室內部品管結果分佈圖



# 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 : **Lab007**

| QC Control Lot No. | Control N       |                             | Control D       |                             |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
|                    | BJ0922N         |                             | BJ0922D         |                             |
| 檢驗期間               | Month (2022/07) | CUM (2022/05/03~2022/07/30) | Month (2022/07) | CUM (2022/05/03~2022/07/30) |
| 累計點數 (N)           | 9               | 26                          | 9               | 26                          |
| 累計平均值 (Mean) U/gHb | 17.0            | 16.7                        | 5.7             | 5.7                         |
| 累計標準差 (SD)         | 1.0             | 0.8                         | 0.3             | 0.2                         |
| 累計變異係數 (CV) %      | 5.9             | 4.8                         | 5.3             | 3.5                         |
| 目標值 (Target) U/gHb | 15.8            | 15.8                        | 5.5             | 5.5                         |
| 總誤差 (TE) %         | 19.4            | 15.3                        | 14.2            | 10.7                        |
| 可容許總誤差 (TEa) %     | 20              | 20                          | 20              | 20                          |
| $\sigma$           | 2.1             | 3.0                         | 3.1             | 4.7                         |

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)  
 $\sigma$  (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

月統計 : 2022 07 Change ; 累計期間 (CUM) : 自 2022 05 03 至 2022 07 30 Change

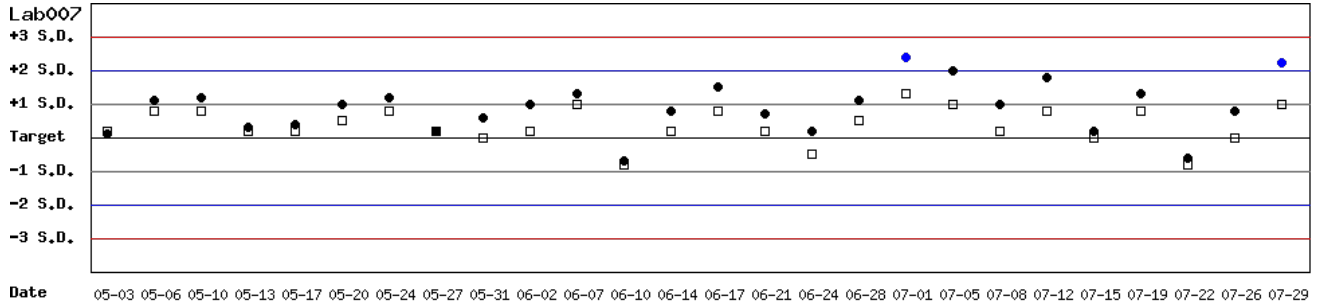
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## Control N 及 Control D SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2022-05-03 至 2022-07-30; 目標值 (Target) : 15.8; 參考標準差 (SD) : 1.00 (●)

Lot No.: BJ0922D; 檢驗期間 : 2022-05-03 至 2022-07-30; 目標值 (Target) : 5.5; 參考標準差 (SD) : 0.40 (□)

單位 : Lab007



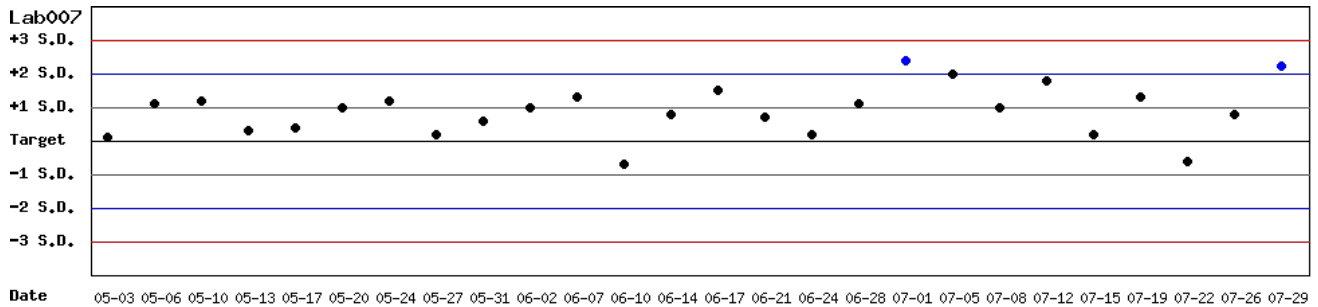
月統計 : 2022 07 Change ; 累計期間 (CUM) : 自 2022 05 03 至 2022 07 30 Change

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## Control N SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2022-05-03 至 2022-07-30; 目標值 (Target) : 15.8; 參考標準差 (SD) : 1.00

單位 : Lab007



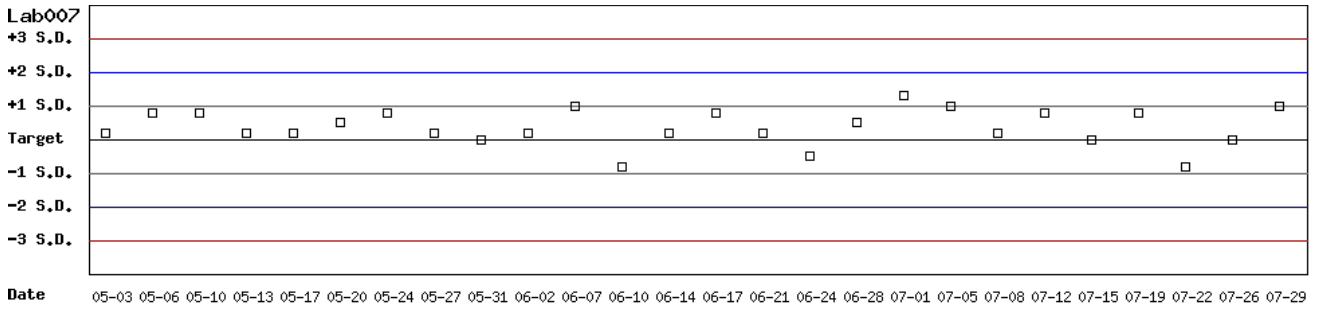
月統計 : 2022 07 Change ; 累計期間 (CUM) : 自 2022 05 03 至 2022 07 30 Change

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# Control D SDI 分佈圖

Lot No.: BJ0922D; 檢驗期間: 2022-05-03 至 2022-07-30; 目標值 (Target): 5.5; 參考標準差 (SD): 0.40

單位: Lab007



月統計: 2022 07 Change ; 累計期間 (CUM): 自 2022 05 03 至 2022 07 30 Change

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# 各檢驗單位 G6PD 定量檢驗 內部品管統計結果 (總表一)

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

選擇 Reagent Kit : 4 - Lanner Change

[列印總表一](#)

## 月統計表

統計月份 : 2022 07 Change

| UnitID <sup>↑</sup>    | Reagent Kit (Code) <sup>↑</sup> | Control N (Lot No.: BJ0922N) |              |            |     |        |        |         |          |                | Control D (Lot No.: BJ0922D) |            |     |        |        |         |          |  |  |
|------------------------|---------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|----------|----------------|------------------------------|------------|-----|--------|--------|---------|----------|--|--|
|                        |                                 | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | $\sigma$ | Target (U/gHb) | Mean (U/gHb)                 | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | $\sigma$ |  |  |
| <a href="#">Lab006</a> | 4                               | 15.0                         | 15.0         | 5          | 0.2 | 1.3    | 2.7    | 20      | >6       | 5.1            | 5.1                          | 5          | 0.1 | 2.0    | 3.9    | 20      | >6       |  |  |
| <a href="#">Lab007</a> | 4                               | 15.8                         | 17.0         | 9          | 1.0 | 5.9    | 19.4   | 20      | 2.1      | 5.5            | 5.7                          | 9          | 0.3 | 5.3    | 14.2   | 20      | 3.1      |  |  |
| <a href="#">Lab008</a> | 4                               | 16.0                         | 14.9         | 9          | 0.5 | 3.4    | 13.6   | 20      | 3.9      | 5.6            | 5.0                          | 9          | 0.1 | 2.0    | 14.7   | 20      | 4.6      |  |  |
| <a href="#">Lab009</a> | 4                               | 16.3                         | 15.8         | 5          | 0.4 | 2.5    | 8.1    | 20      | >6       | 5.9            | 5.2                          | 5          | 0.2 | 3.8    | 19.6   | 20      | 2.1      |  |  |
| <a href="#">Lab010</a> | 4                               | 16.7                         | 15.5         | 2          | -   | -      | -      | 20      | -        | 5.8            | 5.5                          | 2          | -   | -      | -      | 20      | -        |  |  |
| <a href="#">Lab011</a> | 4                               | 15.8                         | 16.1         | 5          | 0.3 | 1.9    | 5.6    | 20      | >6       | 5.2            | 5.4                          | 5          | 0.2 | 3.7    | 11.3   | 20      | 4.4      |  |  |
| <a href="#">Lab012</a> | 4                               | 14.8                         | 14.9         | 6          | 0.3 | 2.0    | 4.7    | 20      | >6       | 5.1            | 5.1                          | 6          | 0.1 | 2.0    | 3.9    | 20      | >6       |  |  |
| Total                  | -                               | -                            | 15.7         | 41         | 1.0 | 6.4    | -      | -       | -        | -              | 5.3                          | 41         | 0.3 | 5.7    | -      | -       | -        |  |  |

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)

$\sigma$  (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

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## 累計統計表

累計期間 : 自 2021 01 01 至 2022 07 31 Change

| UnitID <sup>↑</sup>    | Reagent Kit (Code) <sup>↑</sup> | Control N (Lot No.: BJ0922N) |              |            |     |        |        |         |          |                | Control D (Lot No.: BJ0922D) |            |     |        |        |         |          |  |  |
|------------------------|---------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|----------|----------------|------------------------------|------------|-----|--------|--------|---------|----------|--|--|
|                        |                                 | Target (U/gHb)               | Mean (U/gHb) | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | $\sigma$ | Target (U/gHb) | Mean (U/gHb)                 | n for Mean | SD  | CV (%) | TE (%) | TEa (%) | $\sigma$ |  |  |
| <a href="#">Lab006</a> | 4                               | 15.0                         | 15.5         | 54         | 0.6 | 3.9    | 11.1   | 20      | 4.3      | 5.1            | 5.3                          | 54         | 0.2 | 3.8    | 11.5   | 20      | 4.2      |  |  |
| <a href="#">Lab007</a> | 4                               | 15.8                         | 16.7         | 122        | 1.1 | 6.6    | 18.9   | 20      | 2.2      | 5.5            | 5.7                          | 122        | 0.3 | 5.3    | 14.2   | 20      | 3.1      |  |  |
| <a href="#">Lab008</a> | 4                               | 16.0                         | 14.1         | 53         | 0.6 | 4.3    | 20.4   | 20      | 1.9      | 5.6            | 4.9                          | 53         | 0.2 | 4.1    | 20.7   | 20      | 1.8      |  |  |
| <a href="#">Lab009</a> | 4                               | 16.3                         | 15.6         | 83         | 0.8 | 5.1    | 14.6   | 20      | 3.1      | 5.9            | 5.3                          | 83         | 0.3 | 5.7    | 21.5   | 20      | 1.7      |  |  |
| <a href="#">Lab010</a> | 4                               | 16.7                         | 15.8         | 23         | 0.6 | 3.8    | 13.0   | 20      | 3.8      | 5.8            | 5.5                          | 23         | 0.2 | 3.6    | 12.4   | 20      | 4.1      |  |  |
| <a href="#">Lab011</a> | 4                               | 15.8                         | 16.4         | 34         | 0.9 | 5.5    | 14.8   | 20      | 2.9      | 5.2            | 5.5                          | 34         | 0.4 | 7.3    | 20.3   | 20      | 1.9      |  |  |
| <a href="#">Lab012</a> | 4                               | 14.8                         | 15.6         | 125        | 0.8 | 5.1    | 15.7   | 20      | 2.9      | 5.1            | 5.4                          | 125        | 0.3 | 5.6    | 17.0   | 20      | 2.5      |  |  |
| Total                  | -                               | -                            | 15.8         | 494        | 1.1 | 7.0    | -      | -       | -        | -              | 5.4                          | 494        | 0.4 | 7.4    | -      | -       | -        |  |  |

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)

$\sigma$  (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Lanner      | 4            |

# 各檢驗單位 G6PD 定量檢驗 內部品管統計結果 (總表二)

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

選擇 Reagent Kit : 4 - Lanner

列印總表二

## Control N 月統計與累計統計之比較表

| Control N (Lot No.: BJ0922N)            |   |                |              |            |     |        |        |         |     |                             |              |            |     |        |        |         |     |
|---|---|----------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| Month (2022/07)                         |   |                |              |            |     |        |        |         |     | CUM (2021/01/01~2022/07/31) |              |            |     |        |        |         |     |
| UnitID <input type="button" value="↑"/> | Reagent Kit (Code) <input type="button" value="↑"/> | 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="#">Lab006</a>                  | 4   | 15.0           | 15.0         | 5          | 0.2 | 1.3    | 2.7    | 20      | >6  | 15.0                        | 15.5         | 54         | 0.6 | 3.9    | 11.1   | 20      | 4.3 |
| <a href="#">Lab007</a>                  | 4   | 15.8           | 17.0         | 9          | 1.0 | 5.9    | 19.4   | 20      | 2.1 | 15.8                        | 16.7         | 122        | 1.1 | 6.6    | 18.9   | 20      | 2.2 |
| <a href="#">Lab008</a>                  | 4   | 16.0           | 14.9         | 9          | 0.5 | 3.4    | 13.6   | 20      | 3.9 | 16.0                        | 14.1         | 53         | 0.6 | 4.3    | 20.4   | 20      | 1.9 |
| <a href="#">Lab009</a>                  | 4   | 16.3           | 15.8         | 5          | 0.4 | 2.5    | 8.1    | 20      | >6  | 16.3                        | 15.6         | 83         | 0.8 | 5.1    | 14.6   | 20      | 3.1 |
| <a href="#">Lab010</a>                  | 4   | 16.7           | 15.5         | 2          | -   | -      | -      | 20      | -   | 16.7                        | 15.8         | 23         | 0.6 | 3.8    | 13.0   | 20      | 3.8 |
| <a href="#">Lab011</a>                  | 4   | 15.8           | 16.1         | 5          | 0.3 | 1.9    | 5.6    | 20      | >6  | 15.8                        | 16.4         | 34         | 0.9 | 5.5    | 14.8   | 20      | 2.9 |
| <a href="#">Lab012</a>                  | 4   | 14.8           | 14.9         | 6          | 0.3 | 2.0    | 4.7    | 20      | >6  | 14.8                        | 15.6         | 125        | 0.8 | 5.1    | 15.7   | 20      | 2.9 |
| Total                                   | -   | -              | 15.7         | 41         | 1.0 | 6.4    | -      | -       | -   | -                           | 15.8         | 494        | 1.1 | 7.0    | -      | -       | -   |

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 × 累計變異係數 (CV)

σ (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

月統計 : 2022  07   累計期間 (CUM) : 自 2021  01  01  至 2022  07  31

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## Control D 月統計與累計統計之比較表

| Control D (Lot No.: BJ0922D)            |   |                |              |            |     |        |        |         |     |                             |              |            |     |        |        |         |     |
|---|---|----------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| Month (2022/07)                         |   |                |              |            |     |        |        |         |     | CUM (2021/01/01~2022/07/31) |              |            |     |        |        |         |     |
| UnitID <input type="button" value="↑"/> | Reagent Kit (Code) <input type="button" value="↑"/> | 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="#">Lab006</a>                  | 4   | 5.1            | 5.1          | 5          | 0.1 | 2.0    | 3.9    | 20      | >6  | 5.1                         | 5.3          | 54         | 0.2 | 3.8    | 11.5   | 20      | 4.2 |
| <a href="#">Lab007</a>                  | 4   | 5.5            | 5.7          | 9          | 0.3 | 5.3    | 14.2   | 20      | 3.1 | 5.5                         | 5.7          | 122        | 0.3 | 5.3    | 14.2   | 20      | 3.1 |
| <a href="#">Lab008</a>                  | 4   | 5.6            | 5.0          | 9          | 0.1 | 2.0    | 14.7   | 20      | 4.6 | 5.6                         | 4.9          | 53         | 0.2 | 4.1    | 20.7   | 20      | 1.8 |
| <a href="#">Lab009</a>                  | 4   | 5.9            | 5.2          | 5          | 0.2 | 3.8    | 19.6   | 20      | 2.1 | 5.9                         | 5.3          | 83         | 0.3 | 5.7    | 21.5   | 20      | 1.7 |
| <a href="#">Lab010</a>                  | 4   | 5.8            | 5.5          | 2          | -   | -      | -      | 20      | -   | 5.8                         | 5.5          | 23         | 0.2 | 3.6    | 12.4   | 20      | 4.1 |
| <a href="#">Lab011</a>                  | 4   | 5.2            | 5.4          | 5          | 0.2 | 3.7    | 11.3   | 20      | 4.4 | 5.2                         | 5.5          | 34         | 0.4 | 7.3    | 20.3   | 20      | 1.9 |
| <a href="#">Lab012</a>                  | 4   | 5.1            | 5.1          | 6          | 0.1 | 2.0    | 3.9    | 20      | >6  | 5.1                         | 5.4          | 125        | 0.3 | 5.6    | 17.0   | 20      | 2.5 |
| Total                                   | -   | -              | 5.3          | 41         | 0.3 | 5.7    | -      | -       | -   | -                           | 5.4          | 494        | 0.4 | 7.4    | -      | -       | -   |

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 × 累計變異係數 (CV)

σ (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

月統計 : 2022  07   累計期間 (CUM) : 自 2021  01  01  至 2022  07  31

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Lanner      | 4            |