

# 2022年08月G6PD定量檢驗實驗室內部品管計畫報告

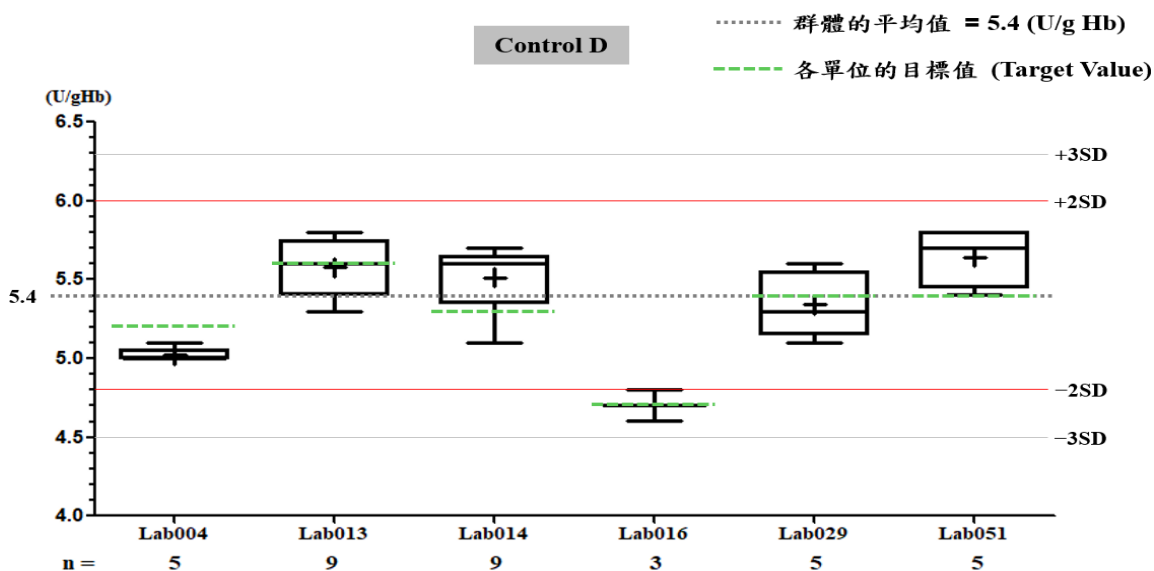
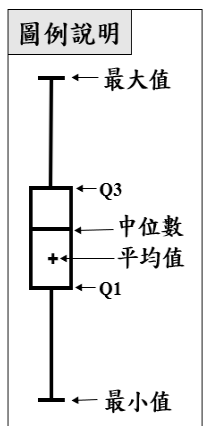
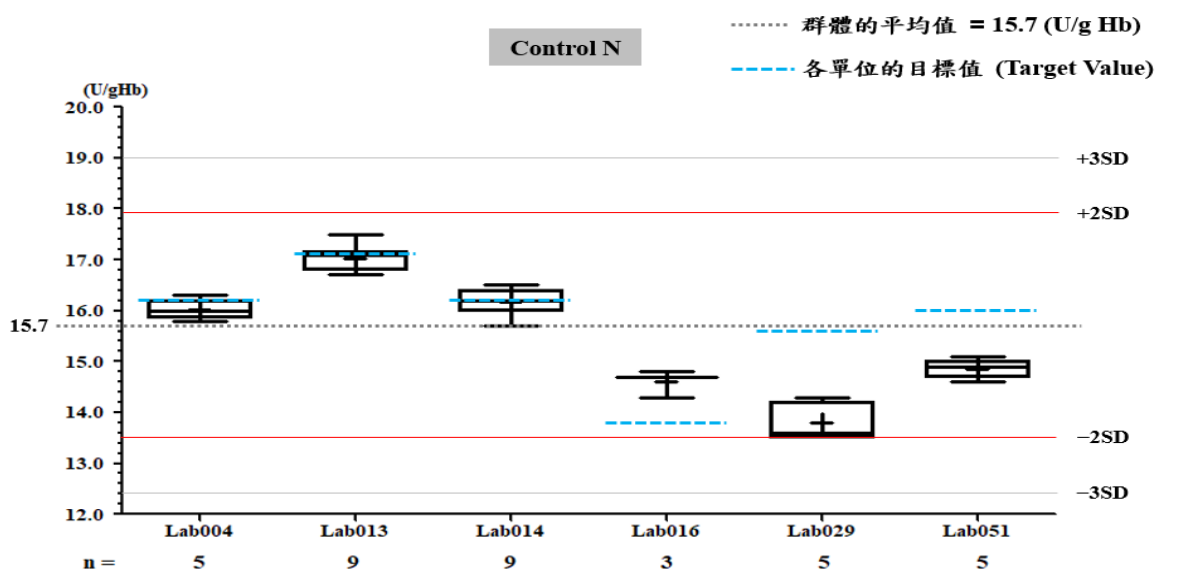
## 一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD         | Control N<br>(Lot No.:BJ0922N) | Control D<br>(Lot No.: BJ0922D) |
|--------------|--------------------------------|---------------------------------|
| 參加單位         | 6                              | 6                               |
| 總回報數 (n)     | 36                             | 36                              |
| 中位數 (Median) | 16.1 (U/g Hb)                  | 5.5 (U/g Hb)                    |
| 平均值 (Mean)   | 15.7 (U/g Hb)                  | 5.4 (U/g Hb)                    |
| 標準差 (SD)     | 1.1                            | 0.3                             |
| 變異係數 (CV)    | 7.0%                           | 5.6%                            |
| G6PD 檢驗值範圍   | 13.5 ~ 17.5 (U/g Hb)           | 4.6 ~ 5.8 (U/g Hb)              |
| Hb 檢驗值範圍     | 2.4 ~ 2.7 (g/dL)               | 2.0 ~ 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 = Innovation 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 : **Lab051**

| QC Control Lot No. | Control N       |                             | Control D       |                             |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
|                    | BJ0922N         |                             | BJ0922D         |                             |
| 檢驗期間               | Month (2022/08) | CUM (2022/03/08~2022/08/31) | Month (2022/08) | CUM (2022/03/08~2022/08/31) |
| 累計點數 (N)           | 5               | 26                          | 5               | 26                          |
| 累計平均值 (Mean) U/gHb | 14.9            | 14.7                        | 5.6             | 5.6                         |
| 累計標準差 (SD)         | 0.2             | 0.2                         | 0.2             | 0.1                         |
| 累計變異係數 (CV) %      | 1.3             | 1.4                         | 3.6             | 1.8                         |
| 目標值 (Target) U/gHb | 16.0            | 16.0                        | 5.4             | 5.4                         |
| 總誤差 (TE) %         | 9.6             | 10.8                        | 10.8            | 7.3                         |
| 可容許總誤差 (TEa) %     | 20              | 20                          | 20              | 20                          |
| $\sigma$           | >6              | >6                          | 4.5             | >6                          |

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

月統計 : 2022 08 Change ; 累計期間 (CUM) : 自 2022 03 08 至 2022 08 31 Change

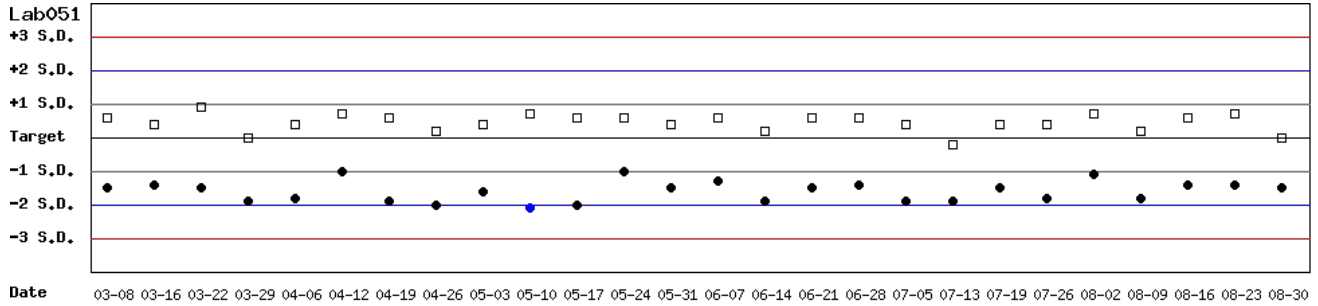
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## Control N 及 Control D SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2022-03-08 至 2022-08-31; 目標值 (Target) : 16.0; 參考標準差 (SD) : 0.80 (●)

Lot No.: BJ0922D; 檢驗期間 : 2022-03-08 至 2022-08-31; 目標值 (Target) : 5.4; 參考標準差 (SD) : 0.54 (□)

單位 : Lab051



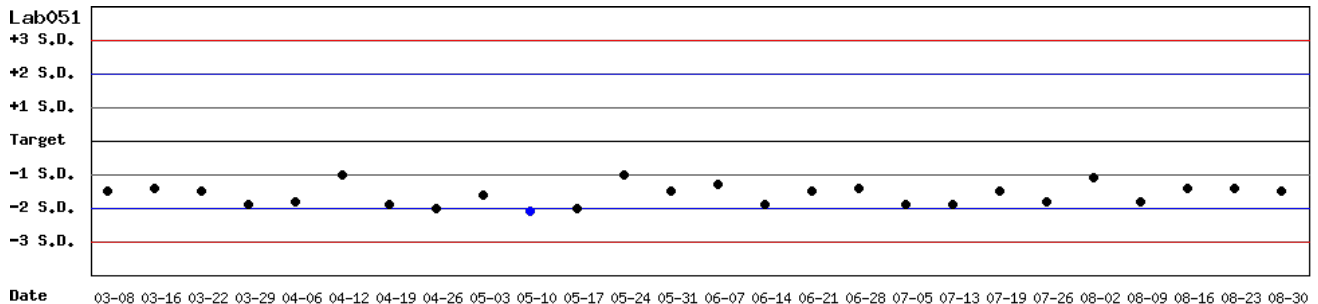
月統計 : 2022 08 Change ; 累計期間 (CUM) : 自 2022 03 08 至 2022 08 31 Change

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## Control N SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2022-03-08 至 2022-08-31; 目標值 (Target) : 16.0; 參考標準差 (SD) : 0.80

單位 : Lab051



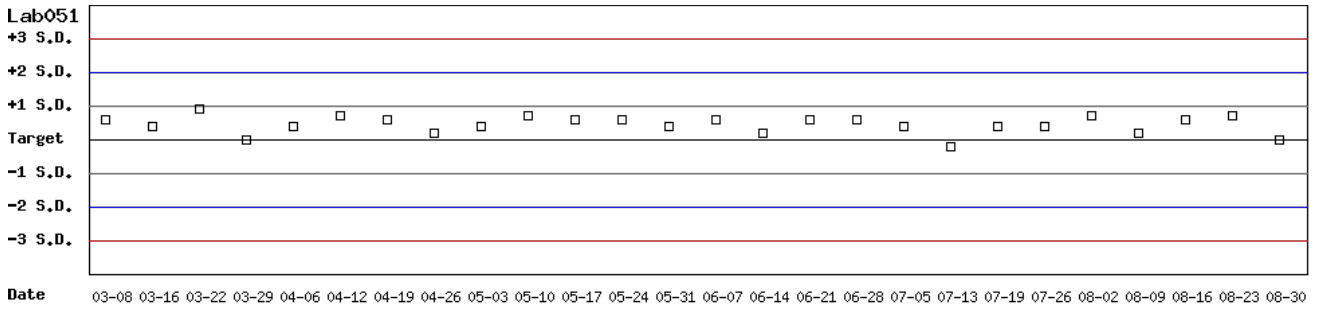
月統計 : 2022 08 Change ; 累計期間 (CUM) : 自 2022 03 08 至 2022 08 31 Change

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# Control D SDI 分佈圖

Lot No.: BJ0922D; 檢驗期間: 2022-03-08 至 2022-08-31; 目標值 (Target): 5.4; 參考標準差 (SD): 0.54

單位: Lab051



月統計: 2022 08 Change ; 累計期間 (CUM): 自 2022 03 08 至 2022 08 31 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 : 3 - Innovation Change

[列印總表一](#)

## 月統計表

統計月份 : 2022 08 Change

| UnitID <span>↑</span>  | Reagent Kit (Code) <span>↑</span> | Control N (Lot No.: BJ0922N) |              |            |     |        |        |         |     | Control D (Lot No.: BJ0922D) |              |            |     |        |        |         |     |
|------------------------|-----------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
|                        |                                   | 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="#">Lab004</a> | 3                                 | 16.2                         | 16.0         | 5          | 0.2 | 1.3    | 3.7    | 20      | >6  | 5.2                          | 5.0          | 5          | 0.0 | 0.0    | 3.8    | 20      | >6  |
| <a href="#">Lab013</a> | 3                                 | 17.1                         | 17.0         | 9          | 0.2 | 1.2    | 2.9    | 20      | >6  | 5.6                          | 5.6          | 9          | 0.2 | 3.6    | 7.1    | 20      | 5.6 |
| <a href="#">Lab014</a> | 3                                 | 16.2                         | 16.2         | 9          | 0.3 | 1.9    | 3.7    | 20      | >6  | 5.3                          | 5.5          | 9          | 0.2 | 3.6    | 11.0   | 20      | 4.5 |
| <a href="#">Lab016</a> | 3                                 | 13.8                         | 14.6         | 3          | 0.3 | 2.1    | 9.9    | 20      | >6  | 4.7                          | 4.7          | 3          | 0.1 | 2.1    | 4.3    | 20      | >6  |
| <a href="#">Lab029</a> | 3                                 | 15.6                         | 13.8         | 5          | 0.4 | 2.9    | 17.3   | 20      | 2.9 | 5.4                          | 5.3          | 5          | 0.2 | 3.8    | 9.4    | 20      | 4.8 |
| <a href="#">Lab051</a> | 3                                 | 16.0                         | 14.9         | 5          | 0.2 | 1.3    | 9.6    | 20      | >6  | 5.4                          | 5.6          | 5          | 0.2 | 3.6    | 10.8   | 20      | 4.5 |
| Total                  | -                                 | -                            | 15.7         | 36         | 1.1 | 7.0    | -      | -       | -   | -                            | 5.4          | 36         | 0.3 | 5.6    | -      | -       | -   |

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 × 累計變異係數 (CV)

σ (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 08 31 Change

| UnitID <span>↑</span>  | Reagent Kit (Code) <span>↑</span> | Control N (Lot No.: BJ0922N) |              |            |     |        |        |         |     | Control D (Lot No.: BJ0922D) |              |            |     |        |        |         |     |
|------------------------|-----------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
|                        |                                   | 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="#">Lab004</a> | 3                                 | 16.2                         | 16.2         | 74         | 0.4 | 2.5    | 4.9    | 20      | >6  | 5.2                          | 5.2          | 74         | 0.2 | 3.8    | 7.7    | 20      | 5.3 |
| <a href="#">Lab013</a> | 3                                 | 17.1                         | 16.9         | 90         | 0.2 | 1.2    | 3.5    | 20      | >6  | 5.6                          | 5.6          | 90         | 0.2 | 3.6    | 7.1    | 20      | 5.6 |
| <a href="#">Lab014</a> | 3                                 | 16.2                         | 15.3         | 104        | 0.9 | 5.9    | 17.3   | 20      | 2.4 | 5.3                          | 5.5          | 104        | 0.2 | 3.6    | 11.0   | 20      | 4.5 |
| <a href="#">Lab016</a> | 3                                 | 13.8                         | 14.7         | 70         | 0.4 | 2.7    | 12.0   | 20      | 5.0 | 4.7                          | 4.7          | 70         | 0.2 | 4.3    | 8.5    | 20      | 4.7 |
| <a href="#">Lab029</a> | 3                                 | 15.6                         | 14.0         | 13         | 0.4 | 2.9    | 16.0   | 20      | 3.4 | 5.4                          | 5.5          | 13         | 0.3 | 5.5    | 12.8   | 20      | 3.3 |
| <a href="#">Lab051</a> | 3                                 | 16.0                         | 14.7         | 36         | 0.2 | 1.4    | 10.8   | 20      | >6  | 5.4                          | 5.6          | 36         | 0.1 | 1.8    | 7.3    | 20      | >6  |
| Total                  | -                                 | -                            | 15.6         | 387        | 1.0 | 6.4    | -      | -       | -   | -                            | 5.3          | 387        | 0.4 | 7.5    | -      | -       | -   |

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)

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Innovation  | 3            |

# 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) Change

選擇 Reagent Kit : 3 - Innovation Change

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 (2022/08)              |              |            |     |        |        |         |     | CUM (2021/01/01~2022/08/31) |              |            |     |        |        |         |     |
| 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="#">Lab004</a> | 3                    | 16.2                         | 16.0         | 5          | 0.2 | 1.3    | 3.7    | 20      | >6  | 16.2                        | 16.2         | 74         | 0.4 | 2.5    | 4.9    | 20      | >6  |
| <a href="#">Lab013</a> | 3                    | 17.1                         | 17.0         | 9          | 0.2 | 1.2    | 2.9    | 20      | >6  | 17.1                        | 16.9         | 90         | 0.2 | 1.2    | 3.5    | 20      | >6  |
| <a href="#">Lab014</a> | 3                    | 16.2                         | 16.2         | 9          | 0.3 | 1.9    | 3.7    | 20      | >6  | 16.2                        | 15.3         | 104        | 0.9 | 5.9    | 17.3   | 20      | 2.4 |
| <a href="#">Lab016</a> | 3                    | 13.8                         | 14.6         | 3          | 0.3 | 2.1    | 9.9    | 20      | >6  | 13.8                        | 14.7         | 70         | 0.4 | 2.7    | 12.0   | 20      | 5.0 |
| <a href="#">Lab029</a> | 3                    | 15.6                         | 13.8         | 5          | 0.4 | 2.9    | 17.3   | 20      | 2.9 | 15.6                        | 14.0         | 13         | 0.4 | 2.9    | 16.0   | 20      | 3.4 |
| <a href="#">Lab051</a> | 3                    | 16.0                         | 14.9         | 5          | 0.2 | 1.3    | 9.6    | 20      | >6  | 16.0                        | 14.7         | 36         | 0.2 | 1.4    | 10.8   | 20      | >6  |
| Total                  | -                    | -                            | 15.7         | 36         | 1.1 | 7.0    | -      | -       | -   | -                           | 15.6         | 387        | 1.0 | 6.4    | -      | -       | -   |

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)

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

月統計 : 2022 08 Change      累計期間 (CUM) : 自 2021 01 01 至 2022 08 31 Change

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## Control D 月統計與累計統計之比較表

|                        |                      | Control D (Lot No.: BJ0922D) |              |            |     |        |        |         |     |                             |              |            |     |        |        |         |     |
|------------------------|----------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
|                        |                      | Month (2022/08)              |              |            |     |        |        |         |     | CUM (2021/01/01~2022/08/31) |              |            |     |        |        |         |     |
| 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="#">Lab004</a> | 3                    | 5.2                          | 5.0          | 5          | 0.0 | 0.0    | 3.8    | 20      | >6  | 5.2                         | 5.2          | 74         | 0.2 | 3.8    | 7.7    | 20      | 5.3 |
| <a href="#">Lab013</a> | 3                    | 5.6                          | 5.6          | 9          | 0.2 | 3.6    | 7.1    | 20      | 5.6 | 5.6                         | 5.6          | 90         | 0.2 | 3.6    | 7.1    | 20      | 5.6 |
| <a href="#">Lab014</a> | 3                    | 5.3                          | 5.5          | 9          | 0.2 | 3.6    | 11.0   | 20      | 4.5 | 5.3                         | 5.5          | 104        | 0.2 | 3.6    | 11.0   | 20      | 4.5 |
| <a href="#">Lab016</a> | 3                    | 4.7                          | 4.7          | 3          | 0.1 | 2.1    | 4.3    | 20      | >6  | 4.7                         | 4.7          | 70         | 0.2 | 4.3    | 8.5    | 20      | 4.7 |
| <a href="#">Lab029</a> | 3                    | 5.4                          | 5.3          | 5          | 0.2 | 3.8    | 9.4    | 20      | 4.8 | 5.4                         | 5.5          | 13         | 0.3 | 5.5    | 12.8   | 20      | 3.3 |
| <a href="#">Lab051</a> | 3                    | 5.4                          | 5.6          | 5          | 0.2 | 3.6    | 10.8   | 20      | 4.5 | 5.4                         | 5.6          | 36         | 0.1 | 1.8    | 7.3    | 20      | >6  |
| Total                  | -                    | -                            | 5.4          | 36         | 0.3 | 5.6    | -      | -       | -   | -                           | 5.3          | 387        | 0.4 | 7.5    | -      | -       | -   |

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 : 2022 08 Change      累計期間 (CUM) : 自 2021 01 01 至 2022 08 31 Change

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Innovation  | 3            |