

# 2025 年 04 月 G6PD 定量檢驗 實驗室內部品管計畫報告

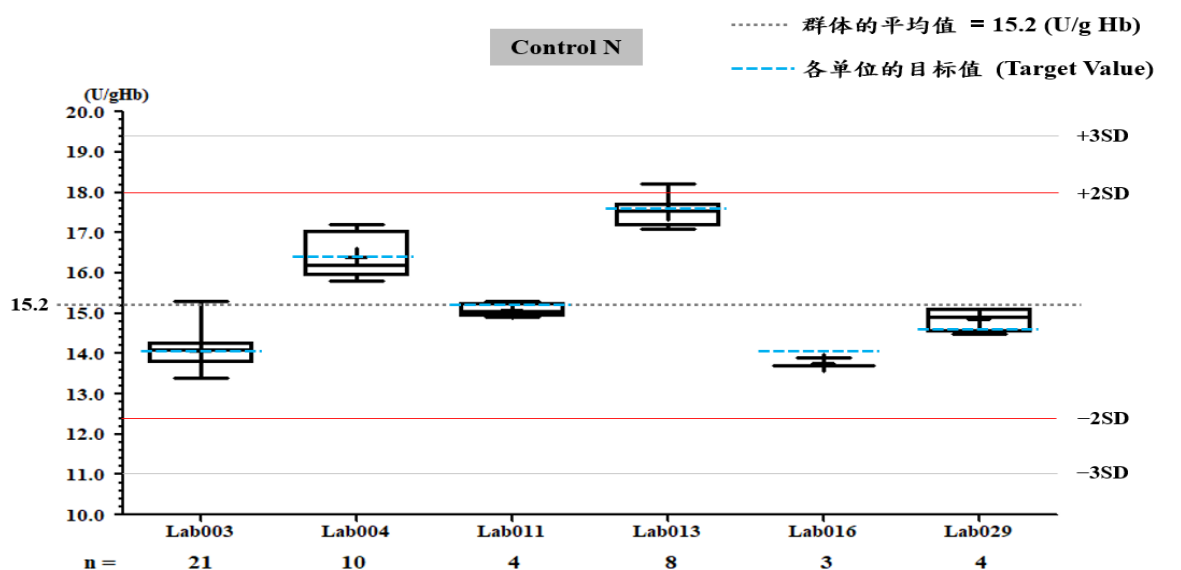
## 一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD         | Control N<br>(Lot No.:BD0728N) | Control D<br>(Lot No.: BD0728D) |
|--------------|--------------------------------|---------------------------------|
| 參加單位         | 6                              | 6                               |
| 總回報數 (n)     | 50                             | 50                              |
| 中位數 (Median) | 14.9 (U/g Hb)                  | 4.4 (U/g Hb)                    |
| 平均值 (Mean)   | 15.2 (U/g Hb)                  | 4.6 (U/g Hb)                    |
| 標準差 (SD)     | 1.4                            | 0.5                             |
| 變異係數 (CV)    | 9.2%                           | 10.9%                           |
| G6PD 檢驗值範圍   | 13.4 ~ 18.2 (U/g Hb)           | 4.0 ~ 5.6 (U/g Hb)              |
| Hb 檢驗值範圍     | 2.5 ~ 2.8 (g/dL)               | 2.2 ~ 2.7 (g/dL)                |

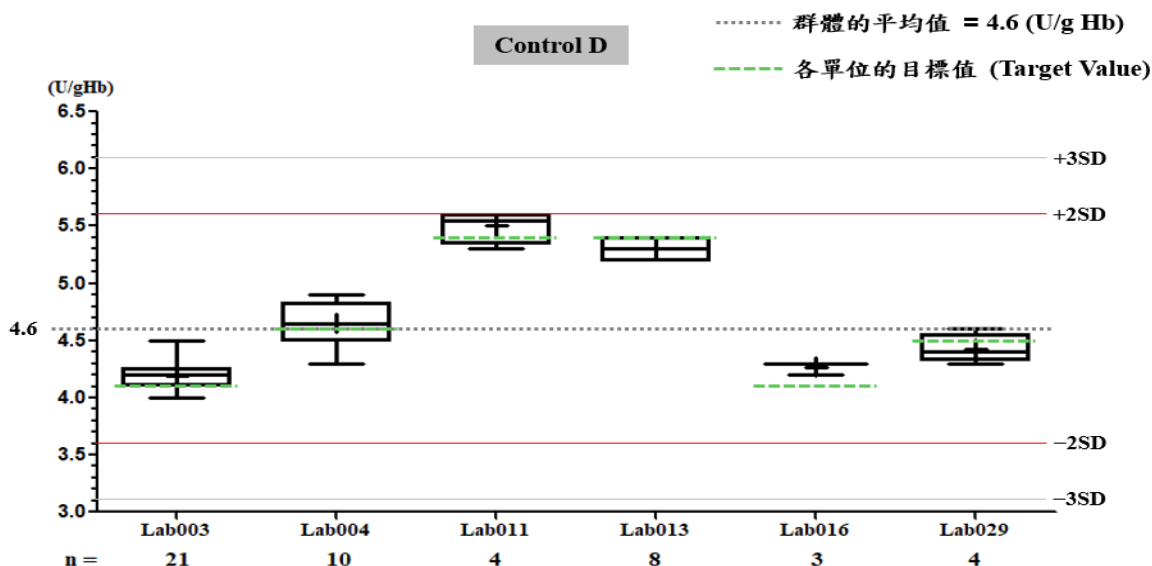
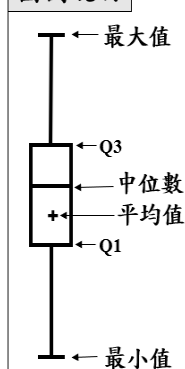
\*統計值為該月全體單位回報的所有數據總合計算所得

\*\* 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



圖例說明



G6PD 定量檢驗內部品管統計結果及 SDI 分佈圖

選擇 LotNo：BD0728N (2024-08-20 ~ 2100-12-31) Change

列印圖表

檢驗單位：Lab003

|                    | Control N          |                                | Control D          |                                |
|--------------------|--------------------|--------------------------------|--------------------|--------------------------------|
| QC Control Lot No. | BD0728N            |                                | BD0728D            |                                |
| 檢驗期間               | Month<br>(2025/04) | CUM<br>(2025/03/25~2025/04/30) | Month<br>(2025/04) | CUM<br>(2025/03/25~2025/04/30) |
| 累計點數 (N)           | 21                 | 26                             | 21                 | 26                             |
| 累計平均值 (Mean) U/gHb | 14.1               | 14.1                           | 4.2                | 4.2                            |
| 累計標準差 (SD)         | 0.4                | 0.5                            | 0.1                | 0.1                            |
| 累計變異係數 (CV) %      | 2.8                | 3.5                            | 2.4                | 2.4                            |
| 目標值 (Target) U/gHb | 14.1               | 14.1                           | 4.1                | 4.1                            |
| 總誤差 (TE) %         | 5.7                | 7.1                            | 7.2                | 7.2                            |
| 可容許總誤差 (TEa) %     | 20                 | 20                             | 20                 | 20                             |
| σ                  | >6                 | 5.7                            | >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 04 Change ； 累計期間 (CUM)：自 2025 03 25 至 2025 04 30 Change

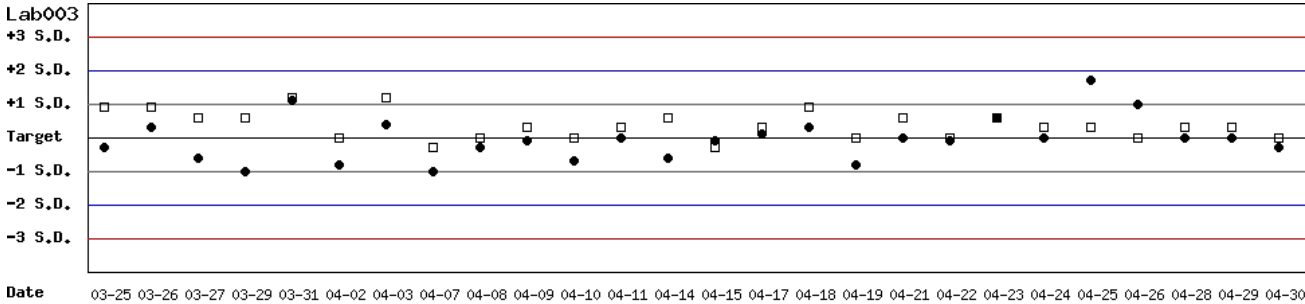
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Control N 及 Control D SDI  
分佈圖

Lot No.: BD0728N; 檢驗期間：2025-03-25 至 2025-04-30; 目標值 (Target) : 14.1 ; 參考標準差 (SD) : 0.71 (●)

Lot No.: BD0728D; 檢驗期間：2025-03-25 至 2025-04-30; 目標值 (Target) : 4.1 ; 參考標準差 (SD) : 0.33 (□)

單位：Lab003

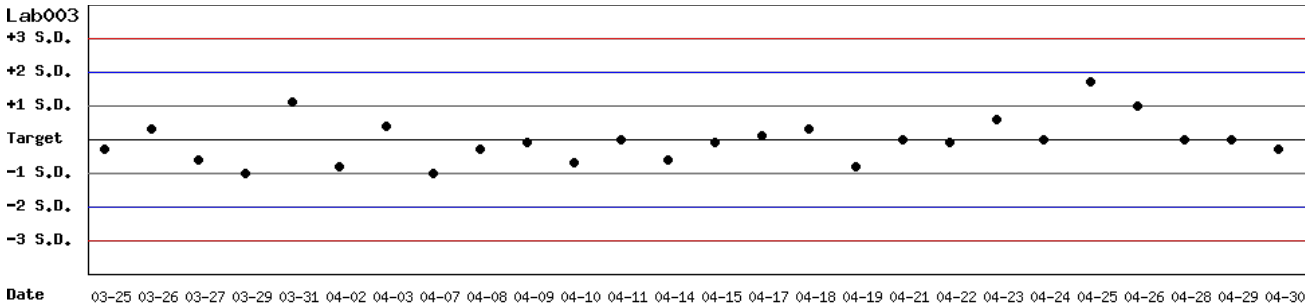


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Control N SDI 分佈圖

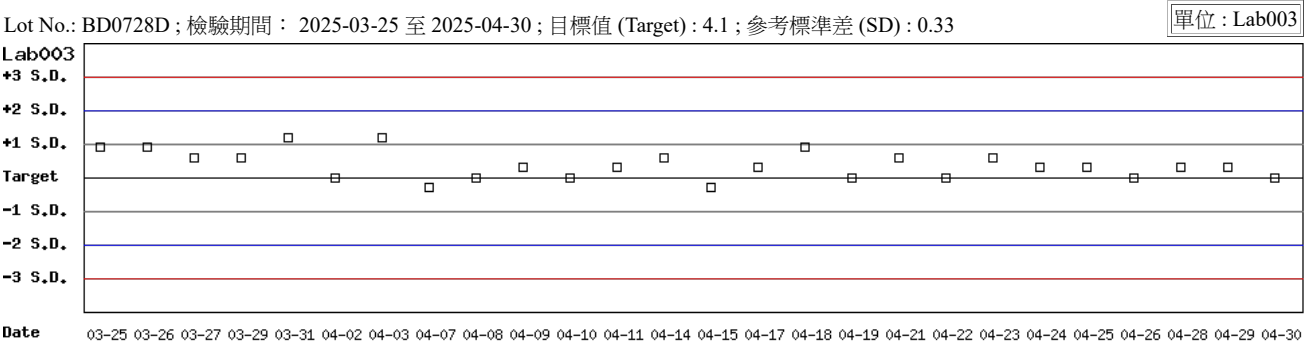
Lot No.: BD0728N; 檢驗期間：2025-03-25 至 2025-04-30; 目標值 (Target) : 14.1 ; 參考標準差 (SD) : 0.71

單位：Lab003



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Control D SDI 分佈圖



各檢驗單位 **G6PD** 定量檢驗 內部品管統計結果（總表一）

選擇 LotNo：BD0728N (2024-08-20 ~ 2100-12-31) Change

選擇 Reagent Kit：3 - Innovation Change

列印總表一

月統計表

統計月份：2025 04 Change

|        |                    | Control N (Lot No.: BD0728N) |              |            |     |        |        |         |    | Control D (Lot No.: BD0728D) |              |            |     |        |        |         |     |
|--------|--------------------|------------------------------|--------------|------------|-----|--------|--------|---------|----|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
| 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   |
| Lab003 | 3                  | 14.1                         | 14.1         | 21         | 0.4 | 2.8    | 5.7    | 20      | >6 | 4.1                          | 4.2          | 21         | 0.1 | 2.4    | 7.2    | 20      | >6  |
| Lab004 | 3                  | 16.4                         | 16.4         | 10         | 0.5 | 3.0    | 6.1    | 20      | >6 | 4.6                          | 4.7          | 10         | 0.2 | 4.3    | 10.7   | 20      | 4.1 |
| Lab011 | 3                  | 15.2                         | 15.1         | 4          | 0.2 | 1.3    | 3.3    | 20      | >6 | 5.4                          | 5.5          | 4          | 0.1 | 1.8    | 5.5    | 20      | >6  |
| Lab013 | 3                  | 17.6                         | 17.5         | 8          | 0.4 | 2.3    | 5.1    | 20      | >6 | 5.4                          | 5.3          | 8          | 0.1 | 1.9    | 5.6    | 20      | >6  |
| Lab016 | 3                  | 14.1                         | 13.8         | 3          | 0.1 | 0.7    | 3.6    | 20      | >6 | 4.1                          | 4.3          | 3          | 0.1 | 2.3    | 9.5    | 20      | >6  |
| Lab029 | 3                  | 14.6                         | 14.9         | 4          | 0.3 | 2.0    | 6.1    | 20      | >6 | 4.5                          | 4.4          | 4          | 0.1 | 2.3    | 6.8    | 20      | >6  |
| Total  | -                  | -                            | 15.2         | 50         | 1.4 | 9.2    | -      | -       | -  | -                            | 4.6          | 50         | 0.5 | 10.9   | -      | -       | -   |

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 2024 09 01 至 2025 04 30 Change

|        |                    | Control N (Lot No.: BD0728N) |              |            |     |        |        |         |     | Control D (Lot No.: BD0728D) |              |            |     |        |        |         |     |
|--------|--------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
| 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   |
| Lab003 | 3                  | 14.1                         | 14.0         | 91         | 0.5 | 3.6    | 7.9    | 20      | 5.4 | 4.1                          | 4.3          | 91         | 0.8 | 18.6   | 42.1   | 20      | 0.8 |
| Lab004 | 3                  | 16.4                         | 16.3         | 32         | 0.4 | 2.5    | 5.5    | 20      | >6  | 4.6                          | 4.7          | 32         | 0.2 | 4.3    | 10.7   | 20      | 4.1 |
| Lab011 | 3                  | 15.2                         | 15.0         | 15         | 0.6 | 4.0    | 9.3    | 20      | 4.7 | 5.4                          | 5.6          | 15         | 0.1 | 1.8    | 7.3    | 20      | >6  |
| Lab013 | 3                  | 17.6                         | 17.7         | 13         | 0.4 | 2.3    | 5.1    | 20      | >6  | 5.4                          | 5.3          | 13         | 0.2 | 3.8    | 9.4    | 20      | 4.8 |
| Lab016 | 3                  | 14.1                         | 13.6         | 25         | 0.3 | 2.2    | 8.0    | 20      | >6  | 4.1                          | 4.3          | 25         | 0.1 | 2.3    | 9.5    | 20      | >6  |
| Lab029 | 3                  | 14.6                         | 14.9         | 4          | 0.3 | 2.0    | 6.1    | 20      | >6  | 4.5                          | 4.4          | 4          | 0.1 | 2.3    | 6.8    | 20      | >6  |
| Total  | -                  | -                            | 14.7         | 180        | 1.3 | 8.8    | -      | -       | -   | -                            | 4.5          | 180        | 0.7 | 15.6   | -      | -       | -   |

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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| 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：BD0728N (2024-08-20 ~ 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.: BD0728N)                                                             |                                                                                                      |                |              |            |     |        |        |         |    |                             |              |            |     |        |        |         |     |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------|--------------|------------|-----|--------|--------|---------|----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| Month (2025/04)                                                                          |                                                                                                      |                |              |            |     |        |        |         |    | CUM (2024/09/01~2025/04/30) |              |            |     |        |        |         |     |
| 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="#">Lab003</a>                                                                   | 3                                                                                                    | 14.1           | 14.1         | 21         | 0.4 | 2.8    | 5.7    | 20      | >6 | 14.1                        | 14.0         | 91         | 0.5 | 3.6    | 7.9    | 20      | 5.4 |
| <a href="#">Lab004</a>                                                                   | 3                                                                                                    | 16.4           | 16.4         | 10         | 0.5 | 3.0    | 6.1    | 20      | >6 | 16.4                        | 16.3         | 32         | 0.4 | 2.5    | 5.5    | 20      | >6  |
| <a href="#">Lab011</a>                                                                   | 3                                                                                                    | 15.2           | 15.1         | 4          | 0.2 | 1.3    | 3.3    | 20      | >6 | 15.2                        | 15.0         | 15         | 0.6 | 4.0    | 9.3    | 20      | 4.7 |
| <a href="#">Lab013</a>                                                                   | 3                                                                                                    | 17.6           | 17.5         | 8          | 0.4 | 2.3    | 5.1    | 20      | >6 | 17.6                        | 17.7         | 13         | 0.4 | 2.3    | 5.1    | 20      | >6  |
| <a href="#">Lab016</a>                                                                   | 3                                                                                                    | 14.1           | 13.8         | 3          | 0.1 | 0.7    | 3.6    | 20      | >6 | 14.1                        | 13.6         | 25         | 0.3 | 2.2    | 8.0    | 20      | >6  |
| <a href="#">Lab029</a>                                                                   | 3                                                                                                    | 14.6           | 14.9         | 4          | 0.3 | 2.0    | 6.1    | 20      | >6 | 14.6                        | 14.9         | 4          | 0.3 | 2.0    | 6.1    | 20      | >6  |
| Total                                                                                    | -                                                                                                    | -              | 15.2         | 50         | 1.4 | 9.2    | -      | -       | -  | -                           | 14.7         | 180        | 1.3 | 8.8    | -      | -       | -   |

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 04 Change 累計期間 (CUM)：自 2024 09 01 至 2025 04 30 Change

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Control D 月統計與累計統計之比較表

| Control D (Lot No.: BD0728D)                                                               |                                                                                                        |                |              |            |     |        |        |         |     |                             |              |            |     |        |        |         |     |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| Month (2025/04)                                                                            |                                                                                                        |                |              |            |     |        |        |         |     | CUM (2024/09/01~2025/04/30) |              |            |     |        |        |         |     |
| 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="#">Lab003</a>                                                                     | 3                                                                                                      | 4.1            | 4.2          | 21         | 0.1 | 2.4    | 7.2    | 20      | >6  | 4.1                         | 4.3          | 91         | 0.8 | 18.6   | 42.1   | 20      | 0.8 |
| <a href="#">Lab004</a>                                                                     | 3                                                                                                      | 4.6            | 4.7          | 10         | 0.2 | 4.3    | 10.7   | 20      | 4.1 | 4.6                         | 4.7          | 32         | 0.2 | 4.3    | 10.7   | 20      | 4.1 |
| <a href="#">Lab011</a>                                                                     | 3                                                                                                      | 5.4            | 5.5          | 4          | 0.1 | 1.8    | 5.5    | 20      | >6  | 5.4                         | 5.6          | 15         | 0.1 | 1.8    | 7.3    | 20      | >6  |
| <a href="#">Lab013</a>                                                                     | 3                                                                                                      | 5.4            | 5.3          | 8          | 0.1 | 1.9    | 5.6    | 20      | >6  | 5.4                         | 5.3          | 13         | 0.2 | 3.8    | 9.4    | 20      | 4.8 |
| <a href="#">Lab016</a>                                                                     | 3                                                                                                      | 4.1            | 4.3          | 3          | 0.1 | 2.3    | 9.5    | 20      | >6  | 4.1                         | 4.3          | 25         | 0.1 | 2.3    | 9.5    | 20      | >6  |
| <a href="#">Lab029</a>                                                                     | 3                                                                                                      | 4.5            | 4.4          | 4          | 0.1 | 2.3    | 6.8    | 20      | >6  | 4.5                         | 4.4          | 4          | 0.1 | 2.3    | 6.8    | 20      | >6  |
| Total                                                                                      | -                                                                                                      | -              | 4.6          | 50         | 0.5 | 10.9   | -      | -       | -   | -                           | 4.5          | 180        | 0.7 | 15.6   | -      | -       | -   |

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 04 Change 累計期間 (CUM)：自 2024 09 01 至 2025 04 30 Change

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