

2022年04月G6PD定量檢驗實驗室內部品管計畫報告

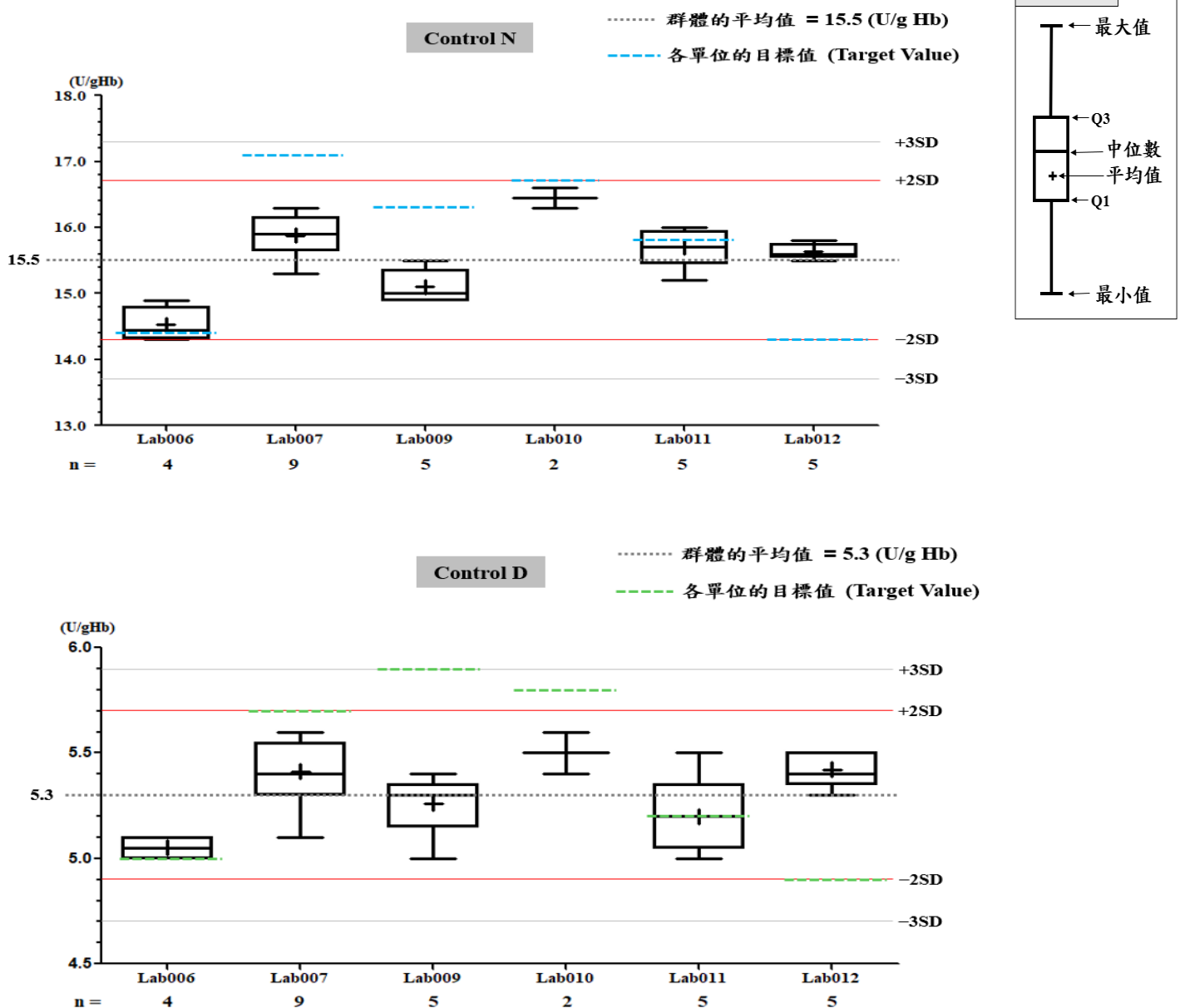
一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD | Control N (Lot No.:BJ0922N) | Control D (Lot No.: BJ0922D) |
|--------------|--------------------------------|---------------------------------|
| 參加單位 | 6 | 6 |
| 總回報數 (n) | 30 | 30 |
| 中位數 (Median) | 15.7 (U/g Hb) | 5.4 (U/g Hb) |
| 平均值 (Mean) | 15.5 (U/g Hb) | 5.3 (U/g Hb) |
| 標準差 (SD) | 0.6 | 0.2 |
| 變異係數 (CV) | 3.9% | 3.8% |
| G6PD 檢驗值範圍 | 14.3 ~ 16.6 (U/g Hb) | 5.0 ~ 5.6 (U/g Hb) |
| Hb 檢驗值範圍 | 2.1 ~ 2.7 (g/dL) | 1.9 ~ 2.2 (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 : **Lab006**

| QC Control Lot No. | Control N | | Control D | |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | BJ0922N | | BJ0922D | |
| 檢驗期間 | Month (2022/04) | CUM (2021/11/17~2022/04/29) | Month (2022/04) | CUM (2021/11/17~2022/04/29) |
| 累計點數 (N) | 4 | 26 | 4 | 26 |
| 累計平均值 (Mean) U/gHb | 14.5 | 15.7 | 5.1 | 5.5 |
| 累計標準差 (SD) | 0.3 | 0.6 | 0.1 | 0.2 |
| 累計變異係數 (CV) % | 2.1 | 3.8 | 2.0 | 3.6 |
| 目標值 (Target) U/gHb | 14.4 | 14.4 | 5.0 | 5.0 |
| 總誤差 (TE) % | 4.8 | 16.7 | 5.9 | 17.3 |
| 可容許總誤差 (TEa) % | 20 | 20 | 20 | 20 |
| σ | >6 | 2.9 | >6 | 2.8 |

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

月統計 : 2022 04 Change ; 累計期間 (CUM) : 自 2021 11 17 至 2022 04 29 Change

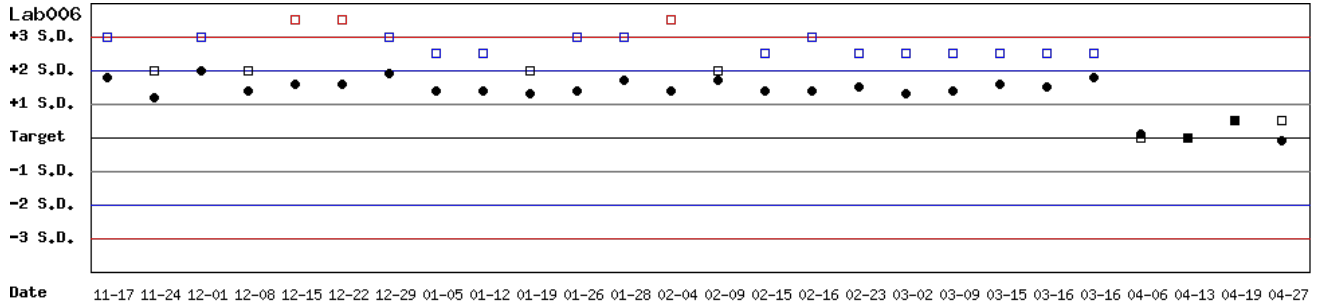
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Control N 及 Control D SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2021-11-17 至 2022-04-29; 目標值 (Target) : 14.4; 參考標準差 (SD) : 1.00 (●)

Lot No.: BJ0922D; 檢驗期間 : 2021-11-17 至 2022-04-29; 目標值 (Target) : 5.0; 參考標準差 (SD) : 0.20 (□)

單位 : Lab006



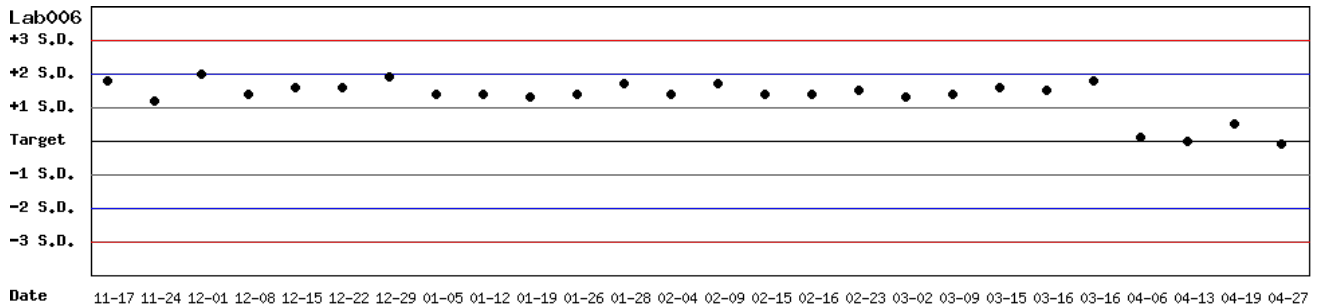
月統計 : 2022 04 Change ; 累計期間 (CUM) : 自 2021 11 17 至 2022 04 29 Change

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Control N SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2021-11-17 至 2022-04-29; 目標值 (Target) : 14.4; 參考標準差 (SD) : 1.00

單位 : Lab006



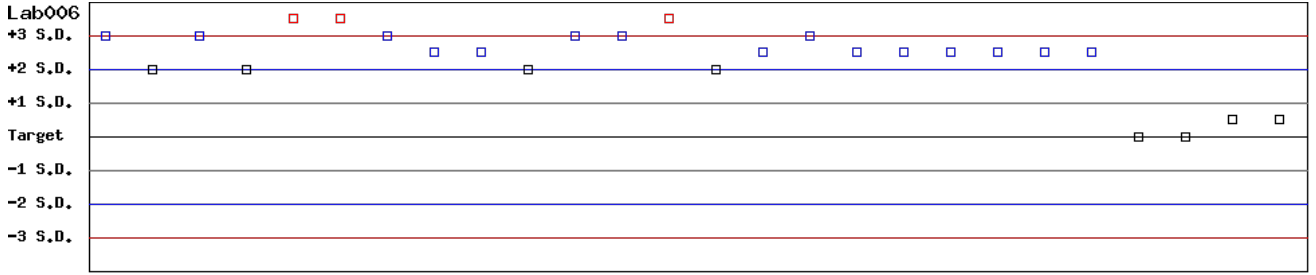
月統計 : 2022 04 Change ; 累計期間 (CUM) : 自 2021 11 17 至 2022 04 29 Change

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Control D SDI 分佈圖

Lot No.: BJ0922D; 檢驗期間: 2021-11-17 至 2022-04-29; 目標值 (Target): 5.0; 參考標準差 (SD): 0.20

單位: Lab006



Date: 11-17 11-24 12-01 12-08 12-15 12-22 12-29 01-05 01-12 01-19 01-26 01-28 02-04 02-09 02-15 02-16 02-23 03-02 03-09 03-15 03-16 03-16 04-06 04-13 04-19 04-27

月統計: 2022 ▾ 04 ▾ Change ; 累計期間 (CUM): 自 2021 ▾ 11 ▾ 17 ▾ 至 2022 ▾ 04 ▾ 29 ▾ 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 04 Change

| UnitID ↑ | Reagent Kit (Code) ↑ | 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 |
| Lab006 | 4 | 14.4 | 14.5 | 4 | 0.3 | 2.1 | 4.8 | 20 | >6 | 5.0 | 5.1 | 4 | 0.1 | 2.0 | 5.9 | 20 | >6 |
| Lab007 | 4 | 17.1 | 15.9 | 9 | 0.3 | 1.9 | 10.8 | 20 | >6 | 5.7 | 5.4 | 9 | 0.2 | 3.7 | 12.7 | 20 | 4.0 |
| Lab009 | 4 | 16.3 | 15.1 | 5 | 0.3 | 2.0 | 11.3 | 20 | >6 | 5.9 | 5.3 | 5 | 0.2 | 3.8 | 17.7 | 20 | 2.6 |
| Lab010 | 4 | 16.7 | 16.5 | 2 | - | - | - | 20 | - | 5.8 | 5.5 | 2 | - | - | - | 20 | - |
| Lab011 | 4 | 15.8 | 15.7 | 5 | 0.3 | 1.9 | 4.5 | 20 | >6 | 5.2 | 5.2 | 5 | 0.2 | 3.8 | 7.7 | 20 | 5.3 |
| Lab012 | 4 | 14.3 | 15.6 | 5 | 0.1 | 0.6 | 10.4 | 20 | >6 | 4.9 | 5.4 | 5 | 0.1 | 1.9 | 13.9 | 20 | 5.2 |
| Total | - | - | 15.5 | 30 | 0.6 | 3.9 | - | - | - | - | 5.3 | 30 | 0.2 | 3.8 | - | - | - |

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 × 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 04 30 Change

| UnitID ↑ | Reagent Kit (Code) ↑ | 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 |
| Lab006 | 4 | 14.4 | 15.7 | 40 | 0.5 | 3.2 | 15.4 | 20 | 3.4 | 5.0 | 5.4 | 40 | 0.2 | 3.7 | 15.4 | 20 | 3.2 |
| Lab007 | 4 | 17.1 | 16.7 | 96 | 1.1 | 6.6 | 15.5 | 20 | 2.7 | 5.7 | 5.7 | 96 | 0.3 | 5.3 | 10.5 | 20 | 3.8 |
| Lab008 | 4 | 16.0 | 13.9 | 26 | 0.3 | 2.2 | 17.4 | 20 | 3.1 | 5.6 | 4.9 | 26 | 0.2 | 4.1 | 20.7 | 20 | 1.8 |
| Lab009 | 4 | 16.3 | 15.6 | 70 | 0.8 | 5.1 | 14.6 | 20 | 3.1 | 5.9 | 5.4 | 70 | 0.4 | 7.4 | 23.3 | 20 | 1.6 |
| Lab010 | 4 | 16.7 | 15.9 | 16 | 0.6 | 3.8 | 12.3 | 20 | 4.0 | 5.8 | 5.5 | 16 | 0.2 | 3.6 | 12.4 | 20 | 4.1 |
| Lab011 | 4 | 15.8 | 16.7 | 20 | 1.0 | 6.0 | 17.7 | 20 | 2.4 | 5.2 | 5.6 | 20 | 0.5 | 8.9 | 25.5 | 20 | 1.4 |
| Lab012 | 4 | 14.3 | 15.8 | 105 | 0.7 | 4.4 | 19.4 | 20 | 2.2 | 4.9 | 5.5 | 105 | 0.3 | 5.5 | 23.2 | 20 | 1.4 |
| Total | - | - | 15.9 | 373 | 1.1 | 6.9 | - | - | - | - | 5.5 | 373 | 0.4 | 7.3 | - | - | - |

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 |
|-------------|--------------|
| 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

Control N 月統計與累計統計之比較表

| | | Control N (Lot No.: BJ0922N) | | | | | | | | | | | | | | | |
|---|---|------------------------------|--------------|------------|-----|--------|--------|---------|----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2022/04) | | | | | | | | CUM (2021/01/01~2022/04/30) | | | | | | | |
| 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 |
| Lab006 | 4 | 14.4 | 14.5 | 4 | 0.3 | 2.1 | 4.8 | 20 | >6 | 14.4 | 15.7 | 40 | 0.5 | 3.2 | 15.4 | 20 | 3.4 |
| Lab007 | 4 | 17.1 | 15.9 | 9 | 0.3 | 1.9 | 10.8 | 20 | >6 | 17.1 | 16.7 | 96 | 1.1 | 6.6 | 15.5 | 20 | 2.7 |
| Lab008 | 4 | 16.0 | - | 0 | - | - | - | 20 | - | 16.0 | 13.9 | 26 | 0.3 | 2.2 | 17.4 | 20 | 3.1 |
| Lab009 | 4 | 16.3 | 15.1 | 5 | 0.3 | 2.0 | 11.3 | 20 | >6 | 16.3 | 15.6 | 70 | 0.8 | 5.1 | 14.6 | 20 | 3.1 |
| Lab010 | 4 | 16.7 | 16.5 | 2 | - | - | - | 20 | - | 16.7 | 15.9 | 16 | 0.6 | 3.8 | 12.3 | 20 | 4.0 |
| Lab011 | 4 | 15.8 | 15.7 | 5 | 0.3 | 1.9 | 4.5 | 20 | >6 | 15.8 | 16.7 | 20 | 1.0 | 6.0 | 17.7 | 20 | 2.4 |
| Lab012 | 4 | 14.3 | 15.6 | 5 | 0.1 | 0.6 | 10.4 | 20 | >6 | 14.3 | 15.8 | 105 | 0.7 | 4.4 | 19.4 | 20 | 2.2 |
| Total | - | - | 15.5 | 30 | 0.6 | 3.9 | - | - | - | - | 15.9 | 373 | 1.1 | 6.9 | - | - | - |

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)

月統計 : 2022 04

累計期間 (CUM) : 自 2021 01 01 至 2022 04 30

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Control D 月統計與累計統計之比較表

| | | Control D (Lot No.: BJ0922D) | | | | | | | | | | | | | | | |
|---|---|------------------------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2022/04) | | | | | | | | CUM (2021/01/01~2022/04/30) | | | | | | | |
| 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 |
| Lab006 | 4 | 5.0 | 5.1 | 4 | 0.1 | 2.0 | 5.9 | 20 | >6 | 5.0 | 5.4 | 40 | 0.2 | 3.7 | 15.4 | 20 | 3.2 |
| Lab007 | 4 | 5.7 | 5.4 | 9 | 0.2 | 3.7 | 12.7 | 20 | 4.0 | 5.7 | 5.7 | 96 | 0.3 | 5.3 | 10.5 | 20 | 3.8 |
| Lab008 | 4 | 5.6 | - | 0 | - | - | - | 20 | - | 5.6 | 4.9 | 26 | 0.2 | 4.1 | 20.7 | 20 | 1.8 |
| Lab009 | 4 | 5.9 | 5.3 | 5 | 0.2 | 3.8 | 17.7 | 20 | 2.6 | 5.9 | 5.4 | 70 | 0.4 | 7.4 | 23.3 | 20 | 1.6 |
| Lab010 | 4 | 5.8 | 5.5 | 2 | - | - | - | 20 | - | 5.8 | 5.5 | 16 | 0.2 | 3.6 | 12.4 | 20 | 4.1 |
| Lab011 | 4 | 5.2 | 5.2 | 5 | 0.2 | 3.8 | 7.7 | 20 | 5.3 | 5.2 | 5.6 | 20 | 0.5 | 8.9 | 25.5 | 20 | 1.4 |
| Lab012 | 4 | 4.9 | 5.4 | 5 | 0.1 | 1.9 | 13.9 | 20 | 5.2 | 4.9 | 5.5 | 105 | 0.3 | 5.5 | 23.2 | 20 | 1.4 |
| Total | - | - | 5.3 | 30 | 0.2 | 3.8 | - | - | - | - | 5.5 | 373 | 0.4 | 7.3 | - | - | - |

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 04

累計期間 (CUM) : 自 2021 01 01 至 2022 04 30

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