

2022 年 11 月 G6PD 定量檢驗 實驗室內部品管計畫報告

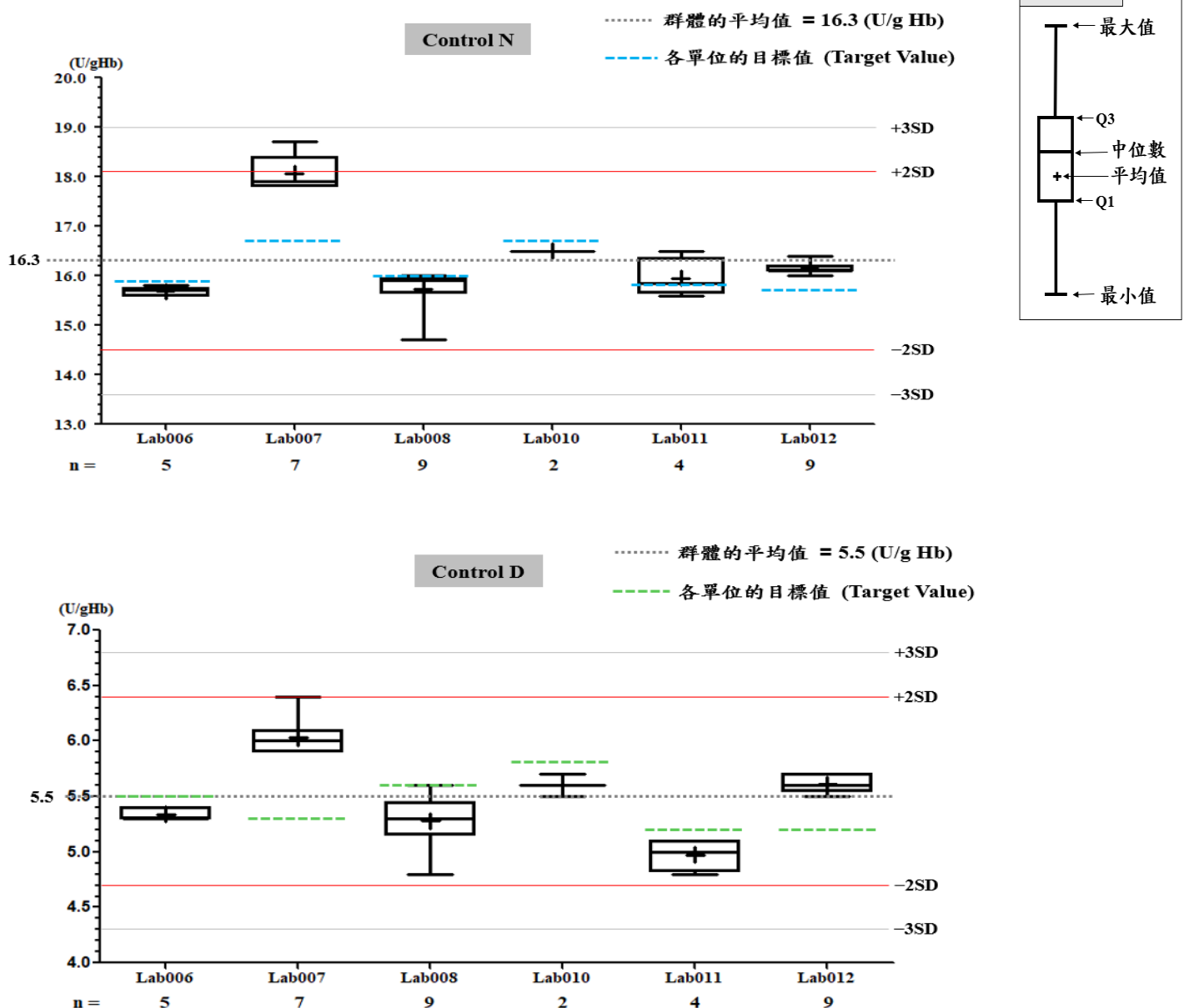
一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD | Control N (Lot No.:BJ0922N) | Control D (Lot No.: BJ0922D) |
|--------------|--------------------------------|---------------------------------|
| 參加單位 | 6 | 6 |
| 總回報數 (n) | 36 | 36 |
| 中位數 (Median) | 16.1 (U/g Hb) | 5.5 (U/g Hb) |
| 平均值 (Mean) | 16.3 (U/g Hb) | 5.5 (U/g Hb) |
| 標準差 (SD) | 0.9 | 0.4 |
| 變異係數 (CV) | 5.5% | 7.3% |
| G6PD 檢驗值範圍 | 14.7 ~ 18.7 (U/g Hb) | 4.8 ~ 6.4 (U/g Hb) |
| Hb 檢驗值範圍 | 2.2 ~ 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 : **Lab012**

| QC Control Lot No. | Control N | | Control D | |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | BJ0922N | | BJ0922D | |
| 檢驗期間 | Month (2022/11) | CUM (2022/08/02~2022/11/30) | Month (2022/11) | CUM (2022/08/02~2022/11/30) |
| 累計點數 (N) | 9 | 26 | 9 | 26 |
| 累計平均值 (Mean) U/gHb | 16.1 | 15.6 | 5.6 | 5.3 |
| 累計標準差 (SD) | 0.1 | 0.7 | 0.1 | 0.3 |
| 累計變異係數 (CV) % | 0.6 | 4.5 | 1.8 | 5.7 |
| 目標值 (Target) U/gHb | 15.7 | 15.7 | 5.3 | 5.3 |
| 總誤差 (TE) % | 3.8 | 9.6 | 9.2 | 11.3 |
| 可容許總誤差 (TEa) % | 20 | 20 | 20 | 20 |
| σ | >6 | 4.3 | >6 | 3.5 |

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 11 Change ; 累計期間 (CUM) : 自 2022 08 02 至 2022 11 30 Change

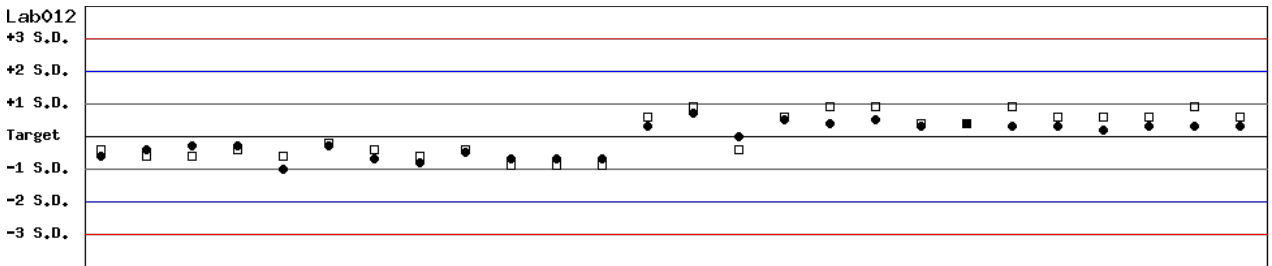
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Control N 及 Control D SDI 分佈圖

Lot No.: BJ0922N ; 檢驗期間 : 2022-08-02 至 2022-11-30 ; 目標值 (Target) : 15.7 ; 參考標準差 (SD) : 1.38 (●)

Lot No.: BJ0922D ; 檢驗期間 : 2022-08-02 至 2022-11-30 ; 目標值 (Target) : 5.3 ; 參考標準差 (SD) : 0.47 (□)

單位 : Lab012



Date 08-02 08-05 08-09 08-12 08-23 08-26 08-30 09-02 09-06 09-09 09-13 09-23 10-14 10-18 10-21 10-25 10-28 11-01 11-04 11-08 11-11 11-15 11-18 11-22 11-25 11-29

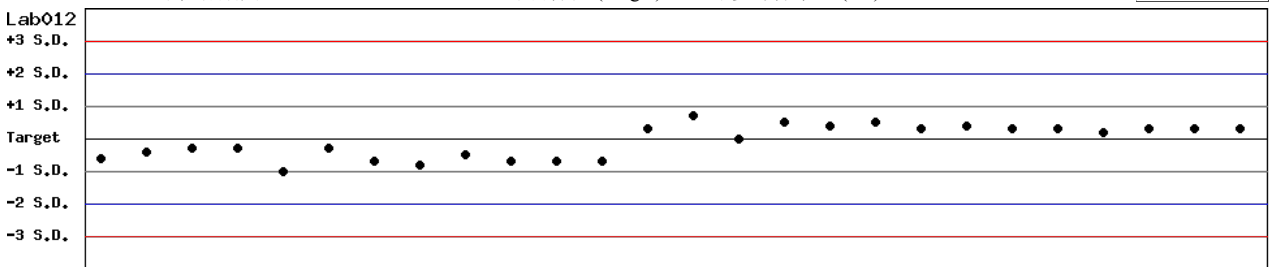
月統計 : 2022 11 Change ; 累計期間 (CUM) : 自 2022 08 02 至 2022 11 30 Change

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Control N SDI 分佈圖

Lot No.: BJ0922N ; 檢驗期間 : 2022-08-02 至 2022-11-30 ; 目標值 (Target) : 15.7 ; 參考標準差 (SD) : 1.38

單位 : Lab012



Date 08-02 08-05 08-09 08-12 08-23 08-26 08-30 09-02 09-06 09-09 09-13 09-23 10-14 10-18 10-21 10-25 10-28 11-01 11-04 11-08 11-11 11-15 11-18 11-22 11-25 11-29

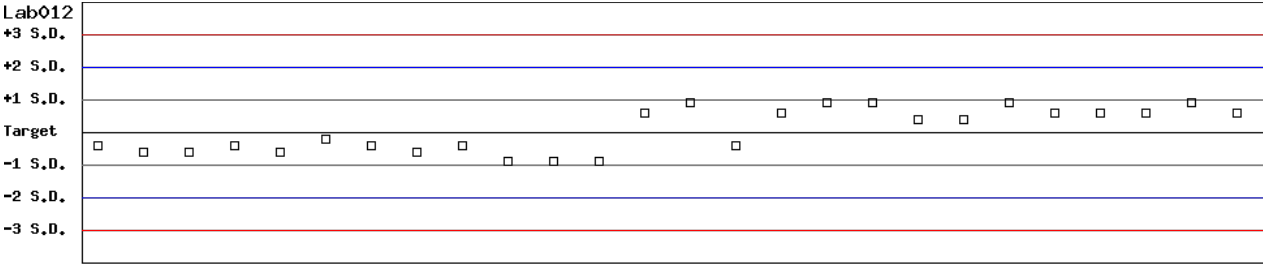
月統計 : 2022 11 Change ; 累計期間 (CUM) : 自 2022 08 02 至 2022 11 30 Change

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Control D SDI 分佈圖

Lot No.: BJ0922D ; 檢驗期間 : 2022-08-02 至 2022-11-30 ; 目標值 (Target) : 5.3 ; 參考標準差 (SD) : 0.47

單位 : Lab012



Date 08-02 08-05 08-09 08-12 08-23 08-26 08-30 09-02 09-06 09-09 09-13 09-23 10-14 10-18 10-21 10-25 10-28 11-01 11-04 11-08 11-11 11-15 11-18 11-22 11-25 11-29

月統計 : 2022 11 Change ; 累計期間 (CUM) : 自 2022 08 02 至 2022 11 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 11 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 | 15.9 | 15.7 | 5 | 0.1 | 0.6 | 2.5 | 20 | >6 | 5.5 | 5.3 | 5 | 0.1 | 1.9 | 7.4 | 20 | >6 |
| Lab007 | 4 | 16.7 | 18.1 | 7 | 0.3 | 1.7 | 11.7 | 20 | >6 | 5.3 | 6.0 | 7 | 0.2 | 3.3 | 19.9 | 20 | 2.1 |
| Lab008 | 4 | 16.0 | 15.7 | 9 | 0.4 | 2.5 | 7.0 | 20 | >6 | 5.6 | 5.3 | 9 | 0.2 | 3.8 | 12.9 | 20 | 3.9 |
| Lab010 | 4 | 16.7 | 16.5 | 2 | - | - | - | 20 | - | 5.8 | 5.6 | 2 | - | - | - | 20 | - |
| Lab011 | 4 | 15.8 | 16.0 | 4 | 0.4 | 2.5 | 6.3 | 20 | >6 | 5.2 | 5.0 | 4 | 0.2 | 4.0 | 11.8 | 20 | 4.0 |
| Lab012 | 4 | 15.7 | 16.1 | 9 | 0.1 | 0.6 | 3.8 | 20 | >6 | 5.3 | 5.6 | 9 | 0.1 | 1.8 | 9.2 | 20 | >6 |
| Total | - | - | 16.3 | 36 | 0.9 | 5.5 | - | - | - | - | 5.5 | 36 | 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 x 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 11 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 | 15.9 | 15.5 | 73 | 0.6 | 3.9 | 10.3 | 20 | 4.5 | 5.5 | 5.3 | 73 | 0.2 | 3.8 | 11.2 | 20 | 4.3 |
| Lab007 | 4 | 16.7 | 16.9 | 154 | 1.1 | 6.5 | 14.2 | 20 | 2.9 | 5.3 | 5.7 | 154 | 0.3 | 5.3 | 18.1 | 20 | 2.3 |
| Lab008 | 4 | 16.0 | 14.7 | 89 | 0.9 | 6.1 | 20.4 | 20 | 1.9 | 5.6 | 5.0 | 89 | 0.3 | 6.0 | 22.7 | 20 | 1.5 |
| Lab009 | 4 | 16.3 | 15.6 | 96 | 0.8 | 5.1 | 14.6 | 20 | 3.1 | 5.9 | 5.3 | 96 | 0.3 | 5.7 | 21.5 | 20 | 1.7 |
| Lab010 | 4 | 16.7 | 15.9 | 31 | 0.6 | 3.8 | 12.3 | 20 | 4.0 | 5.8 | 5.5 | 31 | 0.2 | 3.6 | 12.4 | 20 | 4.1 |
| Lab011 | 4 | 15.8 | 16.3 | 51 | 0.8 | 4.9 | 13.0 | 20 | 3.4 | 5.2 | 5.4 | 51 | 0.4 | 7.4 | 18.7 | 20 | 2.2 |
| Lab012 | 4 | 15.7 | 15.6 | 151 | 0.8 | 5.1 | 10.9 | 20 | 3.8 | 5.3 | 5.4 | 151 | 0.3 | 5.6 | 13.0 | 20 | 3.2 |
| Total | - | - | 15.8 | 645 | 1.1 | 7.0 | - | - | - | - | 5.4 | 645 | 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)

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 (2022/11) | | | | | | | | | CUM (2021/01/01~2022/11/30) | | | | | | |
| 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 | 15.9 | 15.7 | 5 | 0.1 | 0.6 | 2.5 | 20 | >6 | 15.9 | 15.5 | 73 | 0.6 | 3.9 | 10.3 | 20 | 4.5 |
| Lab007 | 4 | 16.7 | 18.1 | 7 | 0.3 | 1.7 | 11.7 | 20 | >6 | 16.7 | 16.9 | 154 | 1.1 | 6.5 | 14.2 | 20 | 2.9 |
| Lab008 | 4 | 16.0 | 15.7 | 9 | 0.4 | 2.5 | 7.0 | 20 | >6 | 16.0 | 14.7 | 89 | 0.9 | 6.1 | 20.4 | 20 | 1.9 |
| Lab009 | 4 | 16.3 | - | 0 | - | - | - | 20 | - | 16.3 | 15.6 | 96 | 0.8 | 5.1 | 14.6 | 20 | 3.1 |
| Lab010 | 4 | 16.7 | 16.5 | 2 | - | - | - | 20 | - | 16.7 | 15.9 | 31 | 0.6 | 3.8 | 12.3 | 20 | 4.0 |
| Lab011 | 4 | 15.8 | 16.0 | 4 | 0.4 | 2.5 | 6.3 | 20 | >6 | 15.8 | 16.3 | 51 | 0.8 | 4.9 | 13.0 | 20 | 3.4 |
| Lab012 | 4 | 15.7 | 16.1 | 9 | 0.1 | 0.6 | 3.8 | 20 | >6 | 15.7 | 15.6 | 151 | 0.8 | 5.1 | 10.9 | 20 | 3.8 |
| Total | - | - | 16.3 | 36 | 0.9 | 5.5 | - | - | - | - | 15.8 | 645 | 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 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 11

累計期間 (CUM) : 自 2021 01 01 至 2022 11 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 (2022/11) | | | | | | | | | CUM (2021/01/01~2022/11/30) | | | | | | |
| 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 | 5.5 | 5.3 | 5 | 0.1 | 1.9 | 7.4 | 20 | >6 | 5.5 | 5.3 | 73 | 0.2 | 3.8 | 11.2 | 20 | 4.3 |
| Lab007 | 4 | 5.3 | 6.0 | 7 | 0.2 | 3.3 | 19.9 | 20 | 2.1 | 5.3 | 5.7 | 154 | 0.3 | 5.3 | 18.1 | 20 | 2.3 |
| Lab008 | 4 | 5.6 | 5.3 | 9 | 0.2 | 3.8 | 12.9 | 20 | 3.9 | 5.6 | 5.0 | 89 | 0.3 | 6.0 | 22.7 | 20 | 1.5 |
| Lab009 | 4 | 5.9 | - | 0 | - | - | - | 20 | - | 5.9 | 5.3 | 96 | 0.3 | 5.7 | 21.5 | 20 | 1.7 |
| Lab010 | 4 | 5.8 | 5.6 | 2 | - | - | - | 20 | - | 5.8 | 5.5 | 31 | 0.2 | 3.6 | 12.4 | 20 | 4.1 |
| Lab011 | 4 | 5.2 | 5.0 | 4 | 0.2 | 4.0 | 11.8 | 20 | 4.0 | 5.2 | 5.4 | 51 | 0.4 | 7.4 | 18.7 | 20 | 2.2 |
| Lab012 | 4 | 5.3 | 5.6 | 9 | 0.1 | 1.8 | 9.2 | 20 | >6 | 5.3 | 5.4 | 151 | 0.3 | 5.6 | 13.0 | 20 | 3.2 |
| Total | - | - | 5.5 | 36 | 0.4 | 7.3 | - | - | - | - | 5.4 | 645 | 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)

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

月統計 : 2022 11

累計期間 (CUM) : 自 2021 01 01 至 2022 11 30

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