

2024 年 10 月 G6PD 定量檢驗 實驗室內部品管計畫報告

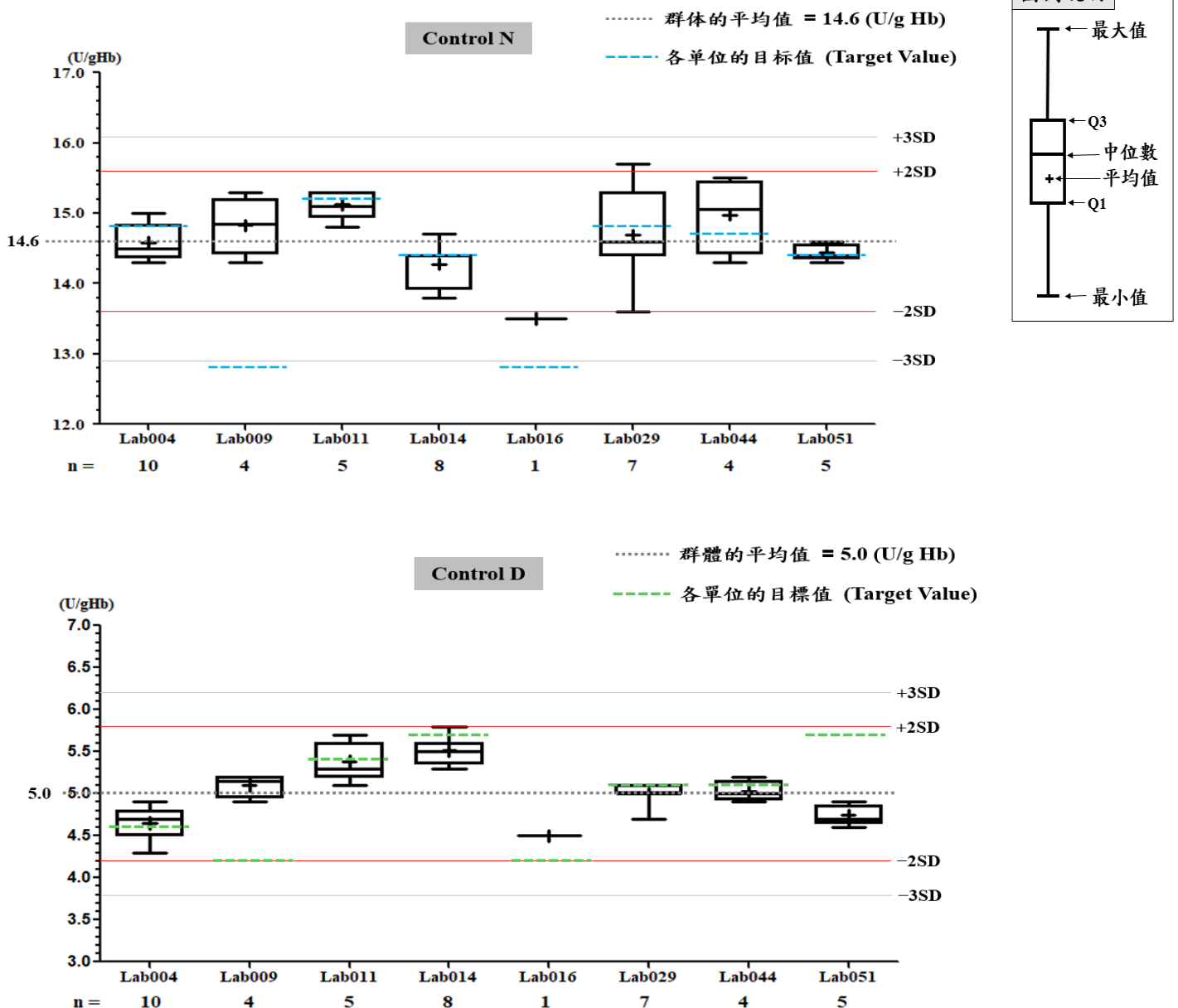
一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD | Control N (Lot No.:BA1116N) | Control D (Lot No.: BA1116D) |
|--------------|--------------------------------|---------------------------------|
| 參加單位 | 8 | 8 |
| 總回報數 (n) | 44 | 44 |
| 中位數 (Median) | 14.6 (U/g Hb) | 5.0 (U/g Hb) |
| 平均值 (Mean) | 14.6 (U/g Hb) | 5.0 (U/g Hb) |
| 標準差 (SD) | 0.6 | 0.4 |
| 變異係數 (CV) | 5.0% | 8.0% |
| G6PD 檢驗值範圍 | 13.5 ~ 15.7 (U/g Hb) | 4.3 ~ 5.8 (U/g Hb) |
| Hb 檢驗值範圍 | 2.2 ~ 2.6 (g/dL) | 2.2 ~ 2.5 (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 : BA1116N (2022-04-26 ~ 2100-12-31) Change

列印圖表

檢驗單位 : Lab014

| QC Control Lot No. | Control N | | Control D | |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | BA1116N | | BA1116D | |
| 檢驗期間 | Month (2024/10) | CUM (2024/07/19~2024/10/31) | Month (2024/10) | CUM (2024/07/19~2024/10/31) |
| 累計點數 (N) | 8 | 26 | 8 | 26 |
| 累計平均值 (Mean) U/gHb | 14.3 | 14.2 | 5.5 | 5.5 |
| 累計標準差 (SD) | 0.3 | 0.4 | 0.2 | 0.2 |
| 累計變異係數 (CV) % | 2.1 | 2.8 | 3.6 | 3.6 |
| 目標值 (Target) U/gHb | 14.4 | 14.4 | 5.7 | 5.7 |
| 總誤差 (TE) % | 4.9 | 7.0 | 10.8 | 10.8 |
| 可容許總誤差 (TEa) % | 20 | 20 | 20 | 20 |
| σ | >6 | >6 | 4.6 | 4.6 |

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)

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

月統計 : 2024 10 Change ; 累計期間 (CUM) : 自 2024 07 19 至 2024 10 31 Change

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Control N 及 Control D SDI 分佈圖

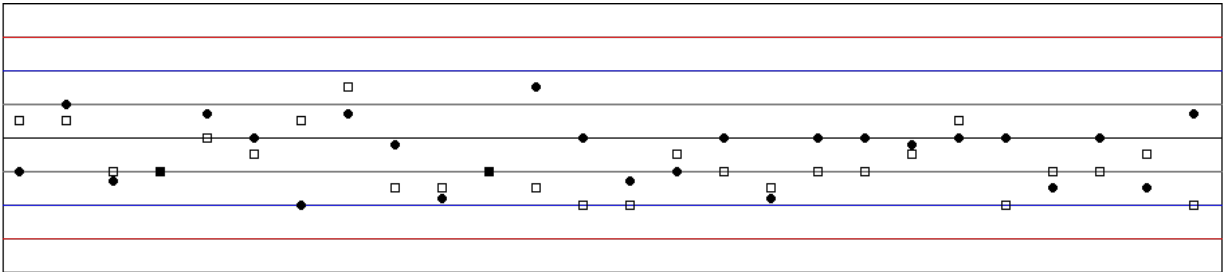
Lot No.: BA1116N ; 檢驗期間 : 2024-07-19 至 2024-10-31 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.40 (●)

Lot No.: BA1116D ; 檢驗期間 : 2024-07-19 至 2024-10-31 ; 目標值 (Target) : 5.7 ; 參考標準差 (SD) : 0.20 (□)

單位 : Lab014

Lab014

+3 S.D.
+2 S.D.
+1 S.D.
Target
-1 S.D.
-2 S.D.
-3 S.D.



Date 07-19 07-23 07-30 08-02 08-06 08-09 08-13 08-16 08-20 08-23 08-27 08-30 09-03 09-06 09-10 09-20 09-24 09-27 10-02 10-08 10-11 10-15 10-18 10-22 10-25 10-29

月統計 : 2024 10 Change ; 累計期間 (CUM) : 自 2024 07 19 至 2024 10 31 Change

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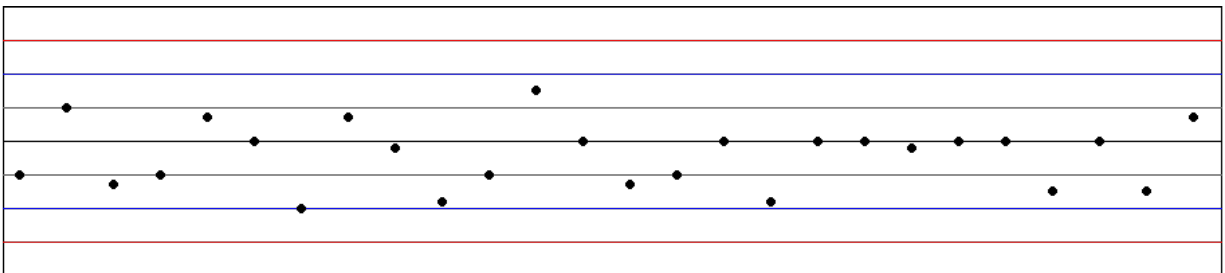
Control N SDI 分佈圖

Lot No.: BA1116N ; 檢驗期間 : 2024-07-19 至 2024-10-31 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.40

單位 : Lab014

Lab014

+3 S.D.
+2 S.D.
+1 S.D.
Target
-1 S.D.
-2 S.D.
-3 S.D.



Date 07-19 07-23 07-30 08-02 08-06 08-09 08-13 08-16 08-20 08-23 08-27 08-30 09-03 09-06 09-10 09-20 09-24 09-27 10-02 10-08 10-11 10-15 10-18 10-22 10-25 10-29

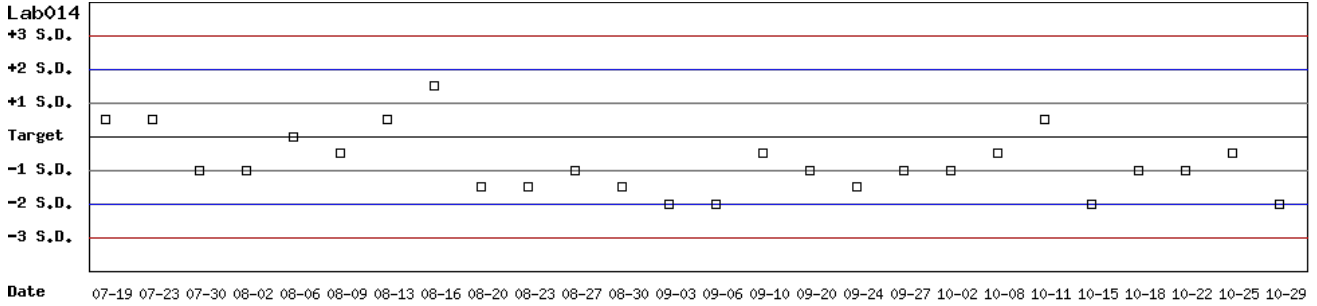
月統計 : 2024 10 Change ; 累計期間 (CUM) : 自 2024 07 19 至 2024 10 31 Change

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Control D SDI 分佈圖

Lot No.: BA1116D ; 檢驗期間 : 2024-07-19 至 2024-10-31 ; 目標值 (Target) : 5.7 ; 參考標準差 (SD) : 0.20

單位 : Lab014



月統計 : 2024 10 Change ; 累計期間 (CUM) : 自 2024 07 19 至 2024 10 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 : BA1116N (2022-04-26 ~ 2100-12-31) Change

選擇 Reagent Kit : 3 - Innovation Change

[列印總表一](#)

月統計表

統計月份 : 2024 10 Change

| UnitID ↑ | Reagent Kit (Code) ↑ | Control N (Lot No.: BA1116N) | | | | | | | | Control D (Lot No.: BA1116D) | | | | | | | |
|------------------------|-----------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|------|
| | | 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 |
| Lab004 | 3 | 14.8 | 14.6 | 10 | 0.3 | 2.1 | 5.5 | 30 | >6 | 4.6 | 4.7 | 10 | 0.2 | 4.3 | 10.7 | 30 | >6 |
| Lab009 | 3 | 12.8 | 14.8 | 4 | 0.4 | 2.7 | 21.0 | 20 | 1.6 | 4.2 | 5.1 | 4 | 0.1 | 2.0 | 25.4 | 20 | -0.7 |
| Lab011 | 3 | 15.2 | 15.1 | 5 | 0.2 | 1.3 | 3.3 | 20 | >6 | 5.4 | 5.4 | 5 | 0.2 | 3.7 | 7.4 | 20 | 5.4 |
| Lab014 | 3 | 14.4 | 14.3 | 8 | 0.3 | 2.1 | 4.9 | 20 | >6 | 5.7 | 5.5 | 8 | 0.2 | 3.6 | 10.8 | 20 | 4.6 |
| Lab016 | 3 | 12.8 | 13.5 | 1 | - | - | - | 20 | - | 4.2 | 4.5 | 1 | - | - | - | 20 | - |
| Lab029 | 3 | 14.8 | 14.7 | 7 | 0.7 | 4.8 | 10.2 | 20 | 4.0 | 5.1 | 5.0 | 7 | 0.1 | 2.0 | 6.0 | 20 | >6 |
| Lab044 | 3 | 14.7 | 15.0 | 4 | 0.5 | 3.3 | 8.7 | 20 | 5.4 | 5.1 | 5.0 | 4 | 0.1 | 2.0 | 6.0 | 20 | >6 |
| Lab051 | 3 | 14.4 | 14.4 | 5 | 0.1 | 0.7 | 1.4 | 20 | >6 | 5.7 | 4.7 | 5 | 0.1 | 2.1 | 21.8 | 20 | 1.2 |
| Total | - | - | 14.6 | 44 | 0.5 | 3.4 | - | - | - | - | 5.0 | 44 | 0.4 | 8.0 | - | - | - |

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)

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累計統計表

累計期間 : 自 2022 06 01 至 2024 10 31 Change

| UnitID ↑ | Reagent Kit (Code) ↑ | Control N (Lot No.: BA1116N) | | | | | | | | Control D (Lot No.: BA1116D) | | | | | | | |
|------------------------|-----------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|------|
| | | 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 |
| Lab004 | 3 | 14.8 | 14.8 | 127 | 0.4 | 2.7 | 5.4 | 30 | >6 | 4.6 | 4.6 | 127 | 0.2 | 4.3 | 8.7 | 30 | >6 |
| Lab009 | 3 | 12.8 | 14.0 | 22 | 0.5 | 3.6 | 16.5 | 20 | 3.0 | 4.2 | 5.2 | 22 | 0.2 | 3.8 | 31.5 | 20 | -1.0 |
| Lab011 | 3 | 15.2 | 14.3 | 77 | 1.2 | 8.4 | 22.7 | 20 | 1.7 | 5.4 | 4.8 | 77 | 0.4 | 8.3 | 27.8 | 20 | 1.1 |
| Lab013 | 3 | 15.1 | 15.3 | 165 | 0.3 | 2.0 | 5.2 | 20 | >6 | 5.4 | 5.5 | 165 | 0.2 | 3.6 | 9.1 | 20 | 5.0 |
| Lab014 | 3 | 14.4 | 14.3 | 201 | 0.3 | 2.1 | 4.9 | 20 | >6 | 5.7 | 5.6 | 201 | 0.2 | 3.6 | 8.9 | 20 | 5.1 |
| Lab016 | 3 | 12.8 | 12.8 | 92 | 0.4 | 3.1 | 6.3 | 20 | >6 | 4.2 | 4.3 | 92 | 0.2 | 4.7 | 11.7 | 20 | 3.7 |
| Lab029 | 3 | 14.8 | 15.3 | 98 | 0.5 | 3.3 | 9.9 | 20 | 5.0 | 5.1 | 5.3 | 98 | 0.3 | 5.7 | 15.2 | 20 | 2.8 |
| Lab044 | 3 | 14.7 | 14.7 | 52 | 0.6 | 4.1 | 8.2 | 20 | 4.9 | 5.1 | 5.1 | 52 | 0.1 | 2.0 | 3.9 | 20 | >6 |
| Lab051 | 3 | 14.4 | 14.6 | 49 | 0.4 | 2.7 | 6.9 | 20 | >6 | 5.7 | 5.3 | 49 | 0.5 | 9.4 | 25.9 | 20 | 1.4 |
| Total | - | - | 14.5 | 883 | 0.9 | 6.2 | - | - | - | - | 5.1 | 883 | 0.5 | 9.8 | - | - | - |

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)

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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 : BA1116N (2022-04-26 ~ 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.: BA1116N) | | | | | | | | | | | | | | | |
|------------------------|-----------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2024/10) | | | | | | | | CUM (2022/06/01~2024/10/31) | | | | | | | |
| 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 |
| Lab004 | 3 | 14.8 | 14.6 | 10 | 0.3 | 2.1 | 5.5 | 30 | >6 | 14.8 | 14.8 | 127 | 0.4 | 2.7 | 5.4 | 30 | >6 |
| Lab009 | 3 | 12.8 | 14.8 | 4 | 0.4 | 2.7 | 21.0 | 20 | 1.6 | 12.8 | 14.0 | 22 | 0.5 | 3.6 | 16.5 | 20 | 3.0 |
| Lab011 | 3 | 15.2 | 15.1 | 5 | 0.2 | 1.3 | 3.3 | 20 | >6 | 15.2 | 14.3 | 77 | 1.2 | 8.4 | 22.7 | 20 | 1.7 |
| Lab013 | 3 | 15.1 | - | 0 | - | - | - | 20 | - | 15.1 | 15.3 | 165 | 0.3 | 2.0 | 5.2 | 20 | >6 |
| Lab014 | 3 | 14.4 | 14.3 | 8 | 0.3 | 2.1 | 4.9 | 20 | >6 | 14.4 | 14.3 | 201 | 0.3 | 2.1 | 4.9 | 20 | >6 |
| Lab016 | 3 | 12.8 | 13.5 | 1 | - | - | - | 20 | - | 12.8 | 12.8 | 92 | 0.4 | 3.1 | 6.3 | 20 | >6 |
| Lab029 | 3 | 14.8 | 14.7 | 7 | 0.7 | 4.8 | 10.2 | 20 | 4.0 | 14.8 | 15.3 | 98 | 0.5 | 3.3 | 9.9 | 20 | 5.0 |
| Lab044 | 3 | 14.7 | 15.0 | 4 | 0.5 | 3.3 | 8.7 | 20 | 5.4 | 14.7 | 14.7 | 52 | 0.6 | 4.1 | 8.2 | 20 | 4.9 |
| Lab051 | 3 | 14.4 | 14.4 | 5 | 0.1 | 0.7 | 1.4 | 20 | >6 | 14.4 | 14.6 | 49 | 0.4 | 2.7 | 6.9 | 20 | >6 |
| Total | - | - | 14.6 | 44 | 0.5 | 3.4 | - | - | - | - | 14.5 | 883 | 0.9 | 6.2 | - | - | - |

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 : 2024 ↓ 10 ↓ Change

累計期間 (CUM) : 自 2022 ↓ 06 ↓ 01 ↓ 至 2024 ↓ 10 ↓ 31 ↓ Change

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Control D 月統計與累計統計之比較表

| | | Control D (Lot No.: BA1116D) | | | | | | | | | | | | | | | |
|------------------------|-----------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|------|-----------------------------|--------------|------------|-----|--------|--------|---------|------|
| | | Month (2024/10) | | | | | | | | CUM (2022/06/01~2024/10/31) | | | | | | | |
| 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 |
| Lab004 | 3 | 4.6 | 4.7 | 10 | 0.2 | 4.3 | 10.7 | 30 | >6 | 4.6 | 4.6 | 127 | 0.2 | 4.3 | 8.7 | 30 | >6 |
| Lab009 | 3 | 4.2 | 5.1 | 4 | 0.1 | 2.0 | 25.4 | 20 | -0.7 | 4.2 | 5.2 | 22 | 0.2 | 3.8 | 31.5 | 20 | -1.0 |
| Lab011 | 3 | 5.4 | 5.4 | 5 | 0.2 | 3.7 | 7.4 | 20 | 5.4 | 5.4 | 4.8 | 77 | 0.4 | 8.3 | 27.8 | 20 | 1.1 |
| Lab013 | 3 | 5.4 | - | 0 | - | - | - | 20 | - | 5.4 | 5.5 | 165 | 0.2 | 3.6 | 9.1 | 20 | 5.0 |
| Lab014 | 3 | 5.7 | 5.5 | 8 | 0.2 | 3.6 | 10.8 | 20 | 4.6 | 5.7 | 5.6 | 201 | 0.2 | 3.6 | 8.9 | 20 | 5.1 |
| Lab016 | 3 | 4.2 | 4.5 | 1 | - | - | - | 20 | - | 4.2 | 4.3 | 92 | 0.2 | 4.7 | 11.7 | 20 | 3.7 |
| Lab029 | 3 | 5.1 | 5.0 | 7 | 0.1 | 2.0 | 6.0 | 20 | >6 | 5.1 | 5.3 | 98 | 0.3 | 5.7 | 15.2 | 20 | 2.8 |
| Lab044 | 3 | 5.1 | 5.0 | 4 | 0.1 | 2.0 | 6.0 | 20 | >6 | 5.1 | 5.1 | 52 | 0.1 | 2.0 | 3.9 | 20 | >6 |
| Lab051 | 3 | 5.7 | 4.7 | 5 | 0.1 | 2.1 | 21.8 | 20 | 1.2 | 5.7 | 5.3 | 49 | 0.5 | 9.4 | 25.9 | 20 | 1.4 |
| Total | - | - | 5.0 | 44 | 0.4 | 8.0 | - | - | - | - | 5.1 | 883 | 0.5 | 9.8 | - | - | - |

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 : 2024 ↓ 10 ↓ Change

累計期間 (CUM) : 自 2022 ↓ 06 ↓ 01 ↓ 至 2024 ↓ 10 ↓ 31 ↓ Change

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