

2017年02月G6PD定量檢驗實驗室內部品管計畫報告

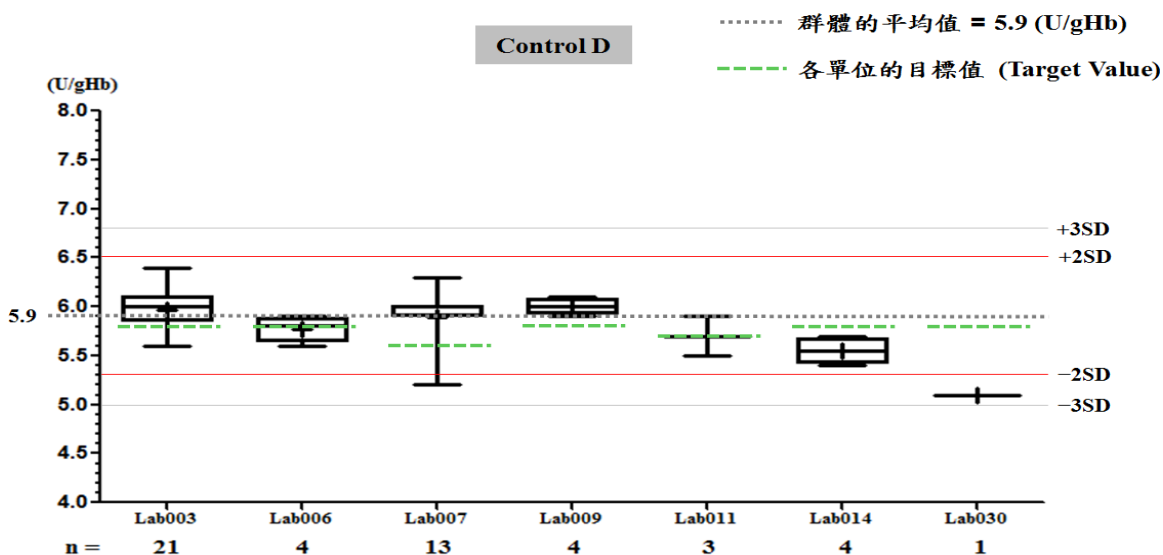
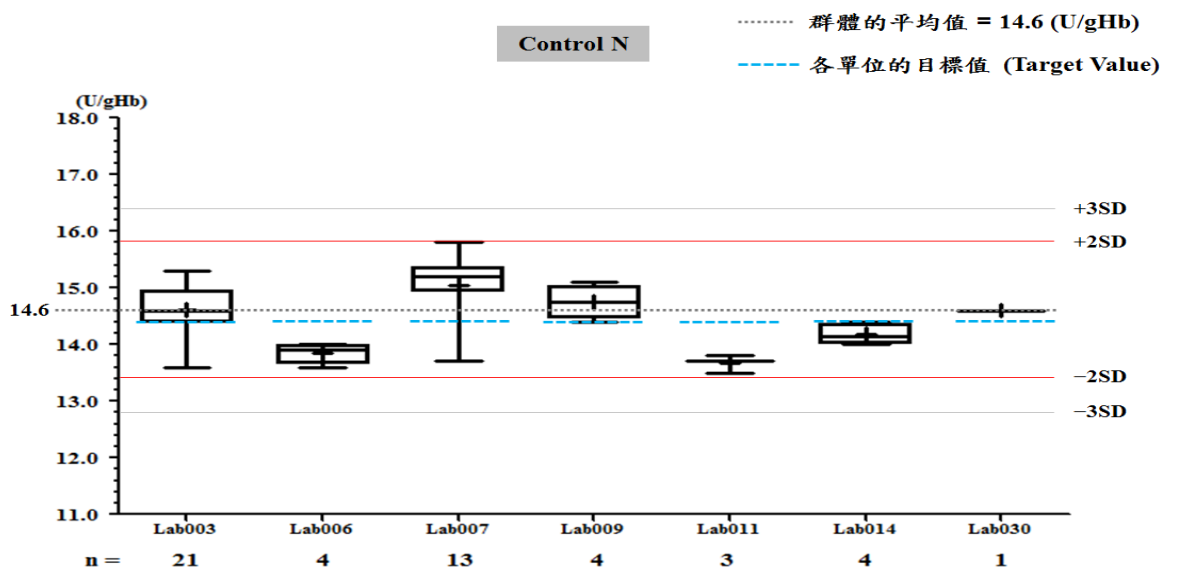
一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD | Control N (Lot No.:AE0909N) | Control D (Lot No.:AE0909D) |
|--------------|--------------------------------|--------------------------------|
| 參加單位 | 7 | 7 |
| 總回報數 (n) | 50 | 50 |
| 中位數 (Median) | 14.6 (U/gHb) | 5.9 (U/gHb) |
| 平均值 (Mean) | 14.6 (U/gHb) | 5.9 (U/gHb) |
| 標準差 (SD) | 0.6 | 0.3 |
| 變異係數 (CV) | 4.1% | 5.1% |
| G6PD 檢驗值範圍 | 13.5 ~ 15.8 (U/gHb) | 5.1 ~ 6.4 (U/gHb) |
| Hb 檢驗值範圍 | 2.0 ~ 2.2 (g/dL) | 2.0 ~ 2.4 (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 = Trinity reagent 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 : AE0909N (2016-01-01 ~ 2100-12-31) Change

列印圖表

檢驗單位 : **Lab011**

| QC Control Lot No. | Control N | | Control D | |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | AE0909N | | AE0909D | |
| 檢驗期間 | Month (2017/02) | CUM (2016/02/01~2017/02/28) | Month (2017/02) | CUM (2016/02/01~2017/02/28) |
| 累計點數 (N) | 3 | 14 | 3 | 14 |
| 累計平均值 (Mean) U/gHb | 13.7 | 13.9 | 5.7 | 5.7 |
| 累計標準差 (SD) | 0.2 | 0.3 | 0.2 | 0.1 |
| 累計變異係數 (CV) % | 1.5 | 2.2 | 3.5 | 1.8 |
| 目標值 (Target) U/gHb | 14.4 | 14.4 | 5.8 | 5.8 |
| 總誤差 (TE) % | 7.8 | 7.8 | 8.7 | 5.2 |
| 可容許總誤差 (TEa) % | 20 | 20 | 20 | 20 |
| σ | >6 | >6 | 5.2 | >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)

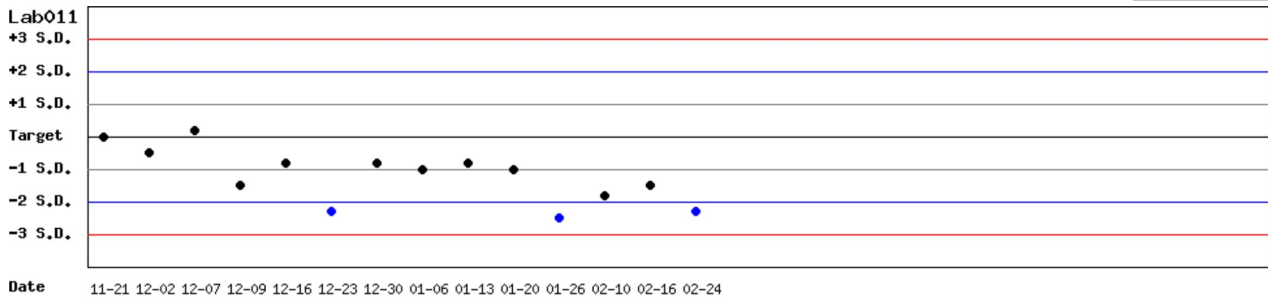
月統計 : 2017 02 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 02 28 Change

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Control N SDI 分佈圖

Lot No.: AE0909N ; 檢驗期間 : 2016-02-01 至 2017-02-28 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.40

單位 : Lab011



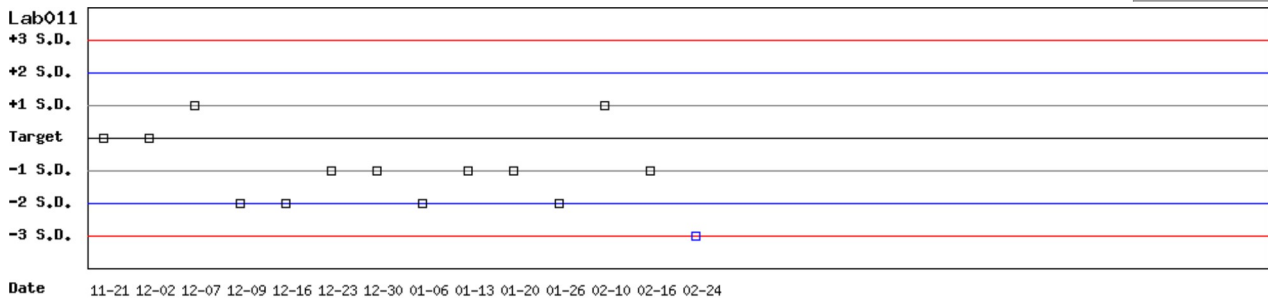
月統計 : 2017 02 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 02 28 Change

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Control D SDI 分佈圖

Lot No.: AE0909D ; 檢驗期間 : 2016-02-01 至 2017-02-28 ; 目標值 (Target) : 5.8 ; 參考標準差 (SD) : 0.10

單位 : Lab011



月統計 : 2017 02 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 02 28 Change

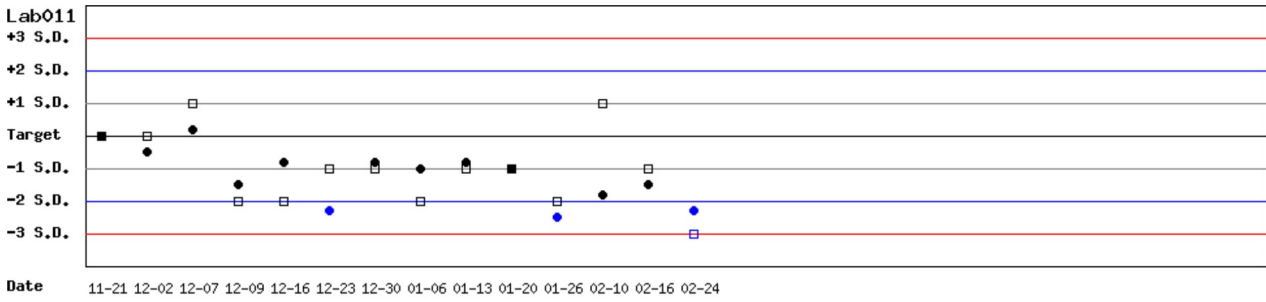
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Control N 及 Control D SDI 分佈圖

Lot No.: AE0909N ; 檢驗期間 : 2016-02-01 至 2017-02-28 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.40 (●)

Lot No.: AE0909D ; 檢驗期間 : 2016-02-01 至 2017-02-28 ; 目標值 (Target) : 5.8 ; 參考標準差 (SD) : 0.10 (□)

單位 : Lab011



月統計 : 2017 02 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 02 28 Change

各檢驗單位 G6PD 定量檢驗 內部品管統計結果 (總表一)

選擇 LotNo : AE0909N (2016-01-01 ~ 2100-12-31)

選擇 Reagent Kit : 1 - Trinity

[列印總表一](#)

月統計表

統計月份 : 2017 02

| UnitID <input type="button" value="↑"/> | Reagent Kit (Code) <input type="button" value="↑"/> | Control N (Lot No.: AE0909N) | | | | | | | | | Control D (Lot No.: AE0909D) | | | | | | | |
|---|---|------------------------------|--------------|------------|-----|--------|--------|---------|-----|----------------|------------------------------|------------|-----|--------|--------|---------|-----|--|
| | | 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 | 1 | 14.4 | 14.6 | 21 | 0.4 | 2.7 | 6.9 | 20 | >6 | 5.8 | 6.0 | 21 | 0.2 | 3.3 | 10.1 | 20 | 5.0 | |
| Lab006 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 5.8 | 5.8 | 4 | 0.1 | 1.7 | 3.4 | 20 | >6 | |
| Lab007 | 1 | 14.4 | 15.0 | 13 | 0.6 | 4.0 | 12.2 | 20 | 4.0 | 5.6 | 5.9 | 13 | 0.3 | 5.1 | 15.5 | 20 | 2.9 | |
| Lab009 | 1 | 14.4 | 14.8 | 4 | 0.3 | 2.0 | 6.8 | 20 | >6 | 5.8 | 6.0 | 4 | 0.1 | 1.7 | 6.8 | 20 | >6 | |
| Lab011 | 1 | 14.4 | 13.7 | 3 | 0.2 | 1.5 | 7.8 | 20 | >6 | 5.8 | 5.7 | 3 | 0.2 | 3.5 | 8.7 | 20 | 5.2 | |
| Lab014 | 1 | 14.4 | 14.2 | 4 | 0.2 | 1.4 | 4.2 | 20 | >6 | 5.8 | 5.6 | 4 | 0.1 | 1.8 | 7.0 | 20 | >6 | |
| Lab030 | 1 | 14.4 | 14.6 | 1 | - | - | - | 20 | - | 5.8 | 5.1 | 1 | - | - | - | 20 | - | |
| Total | - | - | 14.6 | 50 | 0.6 | 4.1 | - | - | - | - | 5.9 | 50 | 0.3 | 5.1 | - | - | - | |

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 2016 02 01 至 2017 02 28

| UnitID <input type="button" value="↑"/> | Reagent Kit (Code) <input type="button" value="↑"/> | Control N (Lot No.: AE0909N) | | | | | | | | | Control D (Lot No.: AE0909D) | | | | | | | |
|---|---|------------------------------|--------------|------------|-----|--------|--------|---------|-----|----------------|------------------------------|------------|-----|--------|--------|---------|-----|--|
| | | 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 | 1 | 14.4 | 14.7 | 28 | 0.5 | 3.4 | 8.9 | 20 | 5.3 | 5.8 | 6.0 | 28 | 0.2 | 3.3 | 10.1 | 20 | 5.0 | |
| Lab006 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 5.8 | 5.8 | 4 | 0.1 | 1.7 | 3.4 | 20 | >6 | |
| Lab007 | 1 | 14.4 | 13.5 | 164 | 0.9 | 6.7 | 19.6 | 20 | 2.1 | 5.6 | 5.2 | 164 | 0.4 | 7.7 | 22.5 | 20 | 1.7 | |
| Lab009 | 1 | 14.4 | 14.9 | 37 | 1.0 | 6.7 | 16.9 | 20 | 2.5 | 5.8 | 6.0 | 37 | 0.5 | 8.3 | 20.1 | 20 | 2.0 | |
| Lab011 | 1 | 14.4 | 13.9 | 14 | 0.3 | 2.2 | 7.8 | 20 | >6 | 5.8 | 5.7 | 14 | 0.1 | 1.8 | 5.2 | 20 | >6 | |
| Lab014 | 1 | 14.4 | 14.2 | 4 | 0.2 | 1.4 | 4.2 | 20 | >6 | 5.8 | 5.6 | 4 | 0.1 | 1.8 | 7.0 | 20 | >6 | |
| Lab030 | 1 | 14.4 | 14.6 | 1 | - | - | - | 20 | - | 5.8 | 5.1 | 1 | - | - | - | 20 | - | |
| Total | - | - | 13.9 | 252 | 1.0 | 7.2 | - | - | - | - | 5.5 | 252 | 0.5 | 9.1 | - | - | - | |

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 |
|-------------|--------------|
| Trinity | 1 |

各檢驗單位 G6PD 定量檢驗 內部品管統計結果 (總表二)

選擇 LotNo :

選擇 Reagent Kit :

Control N 月統計與累計統計之比較表

| | | Control N (Lot No.: AE0909N) | | | | | | | | | | | | | | | |
|---|---|------------------------------|--------------|------------|-----|--------|--------|---------|-----|----------------|-----------------------------|------------|-----|--------|--------|---------|-----|
| | | Month (2017/02) | | | | | | | | | CUM (2016/02/01~2017/02/28) | | | | | | |
| 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 |
| Lab003 | 1 | 14.4 | 14.6 | 21 | 0.4 | 2.7 | 6.9 | 20 | >6 | 14.4 | 14.7 | 28 | 0.5 | 3.4 | 8.9 | 20 | 5.3 |
| Lab006 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 |
| Lab007 | 1 | 14.4 | 15.0 | 13 | 0.6 | 4.0 | 12.2 | 20 | 4.0 | 14.4 | 13.5 | 164 | 0.9 | 6.7 | 19.6 | 20 | 2.1 |
| Lab009 | 1 | 14.4 | 14.8 | 4 | 0.3 | 2.0 | 6.8 | 20 | >6 | 14.4 | 14.9 | 37 | 1.0 | 6.7 | 16.9 | 20 | 2.5 |
| Lab011 | 1 | 14.4 | 13.7 | 3 | 0.2 | 1.5 | 7.8 | 20 | >6 | 14.4 | 13.9 | 14 | 0.3 | 2.2 | 7.8 | 20 | >6 |
| Lab014 | 1 | 14.4 | 14.2 | 4 | 0.2 | 1.4 | 4.2 | 20 | >6 | 14.4 | 14.2 | 4 | 0.2 | 1.4 | 4.2 | 20 | >6 |
| Lab030 | 1 | 14.4 | 14.6 | 1 | - | - | - | 20 | - | 14.4 | 14.6 | 1 | - | - | - | 20 | - |
| Total | - | - | 14.6 | 50 | 0.6 | 4.1 | - | - | - | - | 13.9 | 252 | 1.0 | 7.2 | - | - | - |

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 × 累計變異係數 (CV)

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

月統計 : 累計期間 (CUM) : 自 至

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Control D 月統計與累計統計之比較表

| | | Control D (Lot No.: AE0909D) | | | | | | | | | | | | | | | |
|---|---|------------------------------|--------------|------------|-----|--------|--------|---------|-----|----------------|-----------------------------|------------|-----|--------|--------|---------|-----|
| | | Month (2017/02) | | | | | | | | | CUM (2016/02/01~2017/02/28) | | | | | | |
| 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 |
| Lab003 | 1 | 5.8 | 6.0 | 21 | 0.2 | 3.3 | 10.1 | 20 | 5.0 | 5.8 | 6.0 | 28 | 0.2 | 3.3 | 10.1 | 20 | 5.0 |
| Lab006 | 1 | 5.8 | 5.8 | 4 | 0.1 | 1.7 | 3.4 | 20 | >6 | 5.8 | 5.8 | 4 | 0.1 | 1.7 | 3.4 | 20 | >6 |
| Lab007 | 1 | 5.6 | 5.9 | 13 | 0.3 | 5.1 | 15.5 | 20 | 2.9 | 5.6 | 5.2 | 164 | 0.4 | 7.7 | 22.5 | 20 | 1.7 |
| Lab009 | 1 | 5.8 | 6.0 | 4 | 0.1 | 1.7 | 6.8 | 20 | >6 | 5.8 | 6.0 | 37 | 0.5 | 8.3 | 20.1 | 20 | 2.0 |
| Lab011 | 1 | 5.8 | 5.7 | 3 | 0.2 | 3.5 | 8.7 | 20 | 5.2 | 5.8 | 5.7 | 14 | 0.1 | 1.8 | 5.2 | 20 | >6 |
| Lab014 | 1 | 5.8 | 5.6 | 4 | 0.1 | 1.8 | 7.0 | 20 | >6 | 5.8 | 5.6 | 4 | 0.1 | 1.8 | 7.0 | 20 | >6 |
| Lab030 | 1 | 5.8 | 5.1 | 1 | - | - | - | 20 | - | 5.8 | 5.1 | 1 | - | - | - | 20 | - |
| Total | - | - | 5.9 | 50 | 0.3 | 5.1 | - | - | - | - | 5.5 | 252 | 0.5 | 9.1 | - | - | - |

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 : 累計期間 (CUM) : 自 至

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| Trinity | 1 |