

2017年07月 G6PD 定量檢驗 實驗室內部品管計畫報告

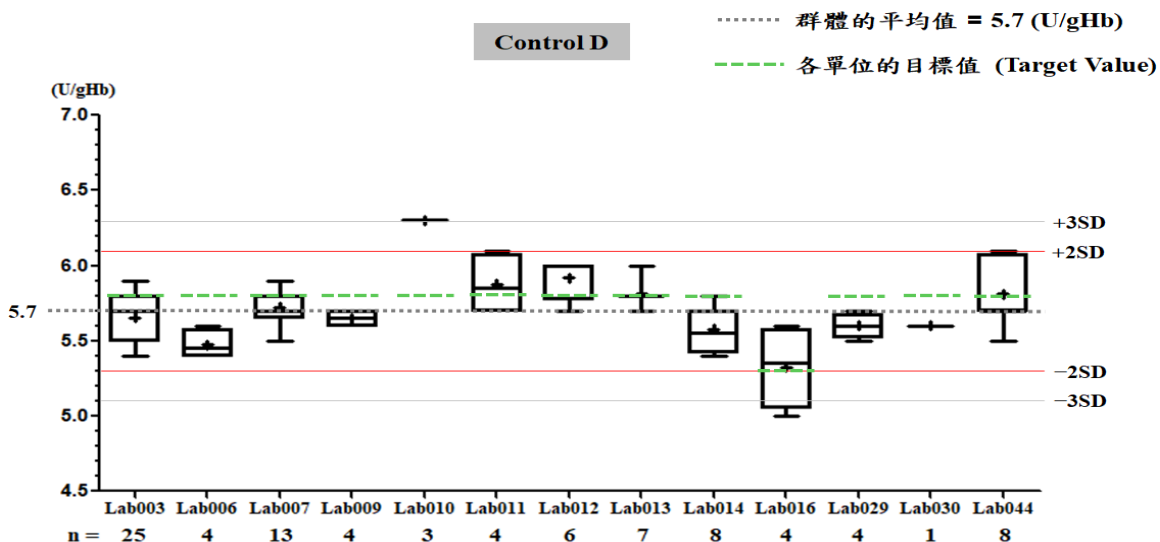
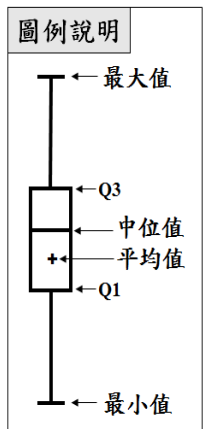
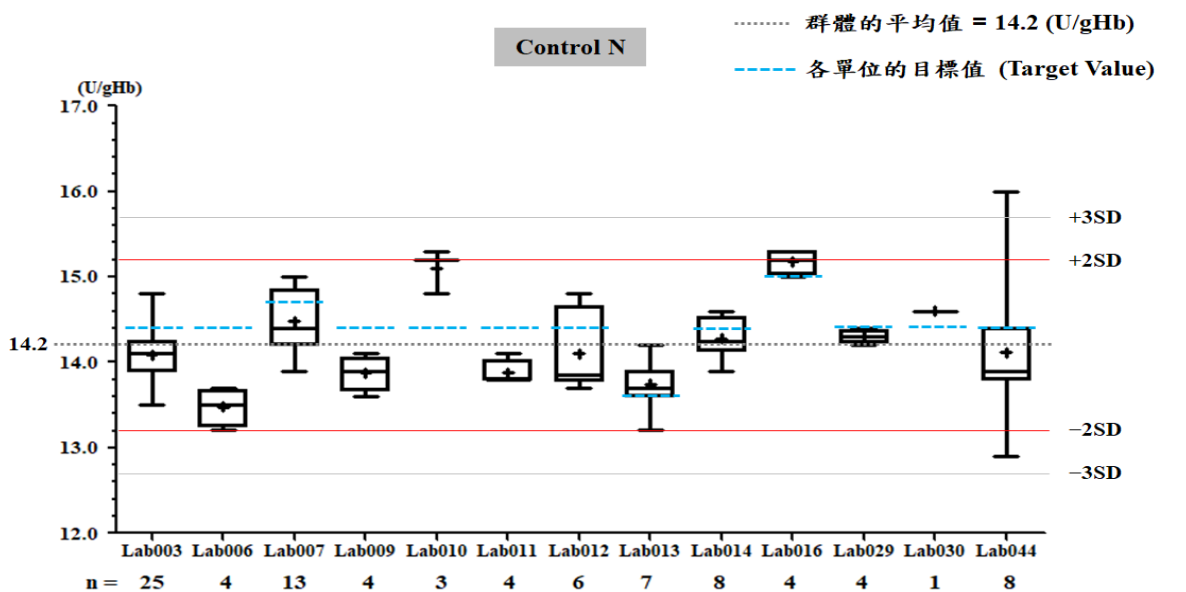
一、所有參加單位本月實驗室內部品管結果之彙整

| G6PD | Control N (Lot No.:AE0909N) | Control D (Lot No.:AE0909D) |
|--------------|--------------------------------|--------------------------------|
| 參加單位 | 13 | 13 |
| 總回報數 (n) | 91 | 91 |
| 中位數 (Median) | 14.1 (U/gHb) | 5.7 (U/gHb) |
| 平均值 (Mean) | 14.2 (U/gHb) | 5.7 (U/gHb) |
| 標準差 (SD) | 0.5 | 0.2 |
| 變異係數 (CV) | 3.5% | 3.5% |
| G6PD 檢驗值範圍 | 12.9 ~ 16.0 (U/gHb) | 5.0 ~ 6.3 (U/gHb) |
| Hb 檢驗值範圍 | 1.9 ~ 2.3 (g/dL) | 2.1 ~ 2.6 (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 : **Lab030**

| QC Control Lot No. | Control N | | Control D | |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | AE0909N | | AE0909D | |
| 檢驗期間 | Month (2017/07) | CUM (2016/02/01~2017/07/31) | Month (2017/07) | CUM (2016/02/01~2017/07/31) |
| 累計點數 (N) | 1 | 3 | 1 | 3 |
| 累計平均值 (Mean) U/gHb | 14.6 | 14.3 | 5.6 | 5.4 |
| 累計標準差 (SD) | - | 0.5 | - | 0.3 |
| 累計變異係數 (CV) % | - | 3.5 | - | 5.6 |
| 目標值 (Target) U/gHb | 14.4 | 14.4 | 5.8 | 5.8 |
| 總誤差 (TE) % | - | 7.7 | - | 18.0 |
| 可容許總誤差 (TEa) % | 20 | 20 | 20 | 20 |
| σ | - | 5.5 | - | 2.3 |

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)

月統計 : 2017 07 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 07 31 Change

[TOP](#)

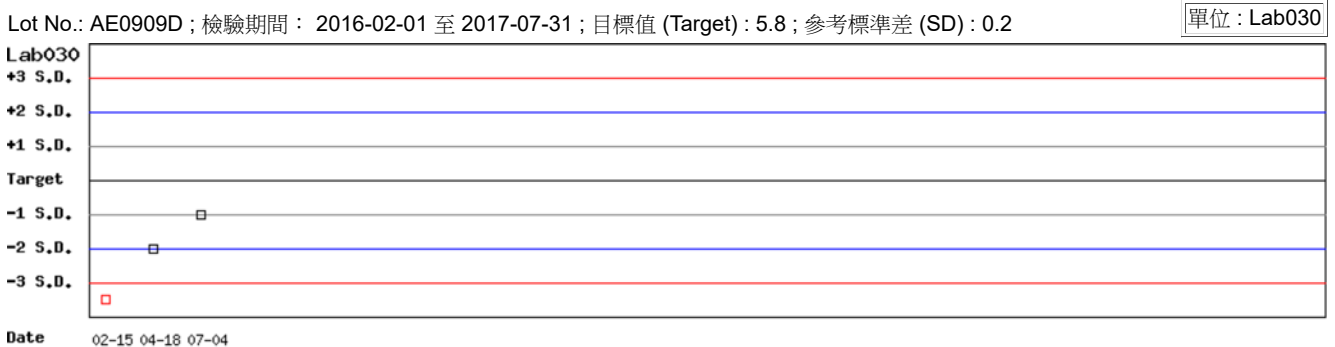
Control N SDI 分佈圖



月統計 : 2017 07 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 07 31 Change

[TOP](#)

Control D SDI 分佈圖



月統計 : 2017 07 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 07 31 Change

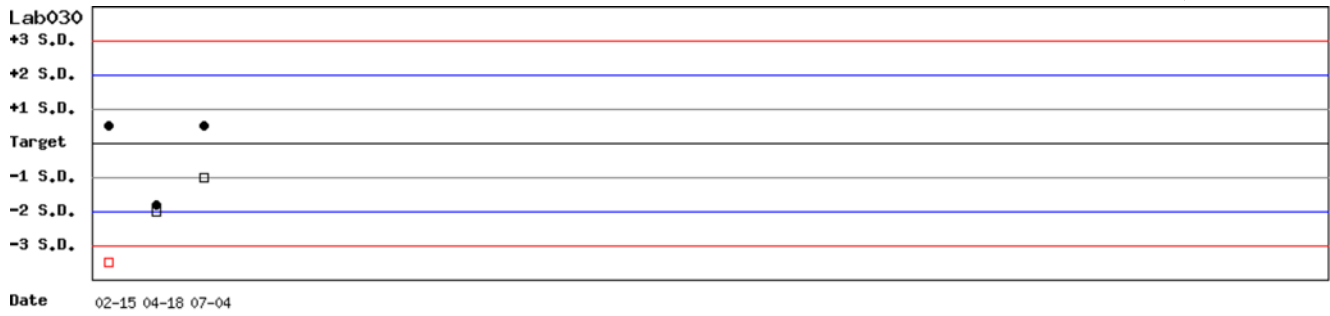
[TOP](#)

Control N 及 Control D SDI 分佈圖

Lot No.: AE0909N ; 檢驗期間 : 2016-02-01 至 2017-07-31 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.4 (●)

Lot No.: AE0909D ; 檢驗期間 : 2016-02-01 至 2017-07-31 ; 目標值 (Target) : 5.8 ; 參考標準差 (SD) : 0.2 (□)

單位 : Lab030



月統計 : 2017 07 Change ; 累計期間 (CUM) : 自 2016 02 01 至 2017 07 31 Change

[TOP](#)

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) Change

選擇 Reagent Kit : 1 - Trinity Change

列印總表一

月統計表

統計月份 : 2017 07 Change

| UnitID | Reagent Kit (Code) | 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 | 14.1 | 25 | 0.3 | 2.1 | 6.3 | 20 | >6 | 5.8 | 5.7 | 25 | 0.2 | 3.5 | 8.7 | 20 | 5.2 |
| Lab006 | 1 | 14.4 | 13.5 | 4 | 0.2 | 1.5 | 9.2 | 20 | >6 | 5.8 | 5.5 | 4 | 0.1 | 1.8 | 8.8 | 20 | >6 |
| Lab007 | 1 | 14.7 | 14.5 | 13 | 0.4 | 2.8 | 6.9 | 20 | >6 | 5.8 | 5.7 | 13 | 0.1 | 1.8 | 5.2 | 20 | >6 |
| Lab009 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 5.8 | 5.7 | 4 | 0.1 | 1.8 | 5.2 | 20 | >6 |
| Lab010 | 1 | 14.4 | 15.1 | 3 | 0.3 | 2.0 | 8.8 | 20 | >6 | 5.8 | 6.3 | 3 | 0.0 | 0.0 | 8.6 | 20 | >6 |
| Lab011 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 5.8 | 5.9 | 4 | 0.2 | 3.4 | 8.5 | 20 | 5.4 |
| Lab012 | 1 | 14.4 | 14.1 | 6 | 0.5 | 3.5 | 9.2 | 20 | 5.1 | 5.8 | 5.9 | 6 | 0.1 | 1.7 | 5.1 | 20 | >6 |
| Lab013 | 1 | 13.6 | 13.7 | 7 | 0.3 | 2.2 | 5.1 | 20 | >6 | 5.8 | 5.8 | 7 | 0.1 | 1.7 | 3.4 | 20 | >6 |
| Lab014 | 1 | 14.4 | 14.3 | 8 | 0.2 | 1.4 | 3.5 | 20 | >6 | 5.8 | 5.6 | 8 | 0.2 | 3.6 | 10.6 | 20 | 4.6 |
| Lab016 | 1 | 15.0 | 15.2 | 4 | 0.2 | 1.3 | 4.0 | 20 | >6 | 5.3 | 5.3 | 4 | 0.3 | 5.7 | 11.3 | 20 | 3.5 |
| Lab029 | 1 | 14.4 | 14.3 | 4 | 0.1 | 0.7 | 2.1 | 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 | 5.6 | 1 | - | - | - | 20 | - |
| Lab044 | 1 | 14.4 | 14.1 | 8 | 0.9 | 6.4 | 14.8 | 20 | 2.8 | 5.8 | 5.8 | 8 | 0.2 | 3.4 | 6.9 | 20 | 5.9 |
| Total | - | - | 14.2 | 91 | 0.5 | 3.5 | - | - | - | - | 5.7 | 91 | 0.2 | 3.5 | - | - | - |

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)

[TOP](#)

累計統計表

累計期間 : 自 2016 02 01 至 2017 07 31 Change

| UnitID | Reagent Kit (Code) | 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 | 14.4 | 146 | 0.5 | 3.5 | 6.9 | 20 | 5.7 | 5.8 | 5.9 | 146 | 0.2 | 3.4 | 8.5 | 20 | 5.4 |
| Lab006 | 1 | 14.4 | 13.8 | 26 | 0.4 | 2.9 | 10.0 | 20 | 5.5 | 5.8 | 5.7 | 26 | 0.2 | 3.5 | 8.7 | 20 | 5.2 |
| Lab007 | 1 | 14.7 | 13.9 | 232 | 1.0 | 7.2 | 19.8 | 20 | 2.0 | 5.8 | 5.4 | 232 | 0.5 | 9.3 | 25.4 | 20 | 1.4 |
| Lab009 | 1 | 14.4 | 14.6 | 58 | 0.9 | 6.2 | 13.7 | 20 | 3.0 | 5.8 | 6.0 | 58 | 0.4 | 6.7 | 16.8 | 20 | 2.5 |
| Lab010 | 1 | 14.4 | 15.1 | 3 | 0.3 | 2.0 | 8.8 | 20 | >6 | 5.8 | 6.3 | 3 | 0.0 | 0.0 | 8.6 | 20 | >6 |
| Lab011 | 1 | 14.4 | 13.8 | 33 | 0.3 | 2.2 | 8.5 | 20 | >6 | 5.8 | 5.7 | 33 | 0.2 | 3.5 | 8.7 | 20 | 5.2 |
| Lab012 | 1 | 14.4 | 14.3 | 61 | 0.4 | 2.8 | 6.3 | 20 | >6 | 5.8 | 5.9 | 61 | 0.2 | 3.4 | 8.5 | 20 | 5.4 |
| Lab013 | 1 | 13.6 | 13.7 | 29 | 0.3 | 2.2 | 5.1 | 20 | >6 | 5.8 | 5.8 | 29 | 0.1 | 1.7 | 3.4 | 20 | >6 |
| Lab014 | 1 | 14.4 | 14.2 | 46 | 0.3 | 2.1 | 5.6 | 20 | >6 | 5.8 | 5.6 | 46 | 0.2 | 3.6 | 10.6 | 20 | 4.6 |
| Lab016 | 1 | 15.0 | 14.2 | 12 | 0.9 | 6.3 | 18.0 | 20 | 2.3 | 5.3 | 5.2 | 12 | 0.3 | 5.8 | 13.4 | 20 | 3.1 |
| Lab029 | 1 | 14.4 | 14.4 | 13 | 0.1 | 0.7 | 1.4 | 20 | >6 | 5.8 | 5.7 | 13 | 0.1 | 1.8 | 5.2 | 20 | >6 |
| Lab030 | 1 | 14.4 | 14.3 | 3 | 0.5 | 3.5 | 7.7 | 20 | 5.5 | 5.8 | 5.4 | 3 | 0.3 | 5.6 | 18.0 | 20 | 2.3 |
| Lab044 | 1 | 14.4 | 14.1 | 8 | 0.9 | 6.4 | 14.8 | 20 | 2.8 | 5.8 | 5.8 | 8 | 0.2 | 3.4 | 6.9 | 20 | 5.9 |
| Total | - | - | 14.1 | 670 | 0.8 | 5.7 | - | - | - | - | 5.7 | 670 | 0.4 | 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 × 累計變異係數 (CV)

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

[TOP](#)

| 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 :

列印總表二

Control N 月統計與累計統計之比較表

| Control N (Lot No.: AE0909N) | | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------|-----------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2017/07) | | | | | | | | CUM (2016/02/01~2017/07/31) | | | | | | | |
| 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 |
| Lab003 | 1 | 14.4 | 14.1 | 25 | 0.3 | 2.1 | 6.3 | 20 | >6 | 14.4 | 14.4 | 146 | 0.5 | 3.5 | 6.9 | 20 | 5.7 |
| Lab006 | 1 | 14.4 | 13.5 | 4 | 0.2 | 1.5 | 9.2 | 20 | >6 | 14.4 | 13.8 | 26 | 0.4 | 2.9 | 10.0 | 20 | 5.5 |
| Lab007 | 1 | 14.7 | 14.5 | 13 | 0.4 | 2.8 | 6.9 | 20 | >6 | 14.7 | 13.9 | 232 | 1.0 | 7.2 | 19.8 | 20 | 2.0 |
| Lab009 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 14.4 | 14.6 | 58 | 0.9 | 6.2 | 13.7 | 20 | 3.0 |
| Lab010 | 1 | 14.4 | 15.1 | 3 | 0.3 | 2.0 | 8.8 | 20 | >6 | 14.4 | 15.1 | 3 | 0.3 | 2.0 | 8.8 | 20 | >6 |
| Lab011 | 1 | 14.4 | 13.9 | 4 | 0.2 | 1.4 | 6.3 | 20 | >6 | 14.4 | 13.8 | 33 | 0.3 | 2.2 | 8.5 | 20 | >6 |
| Lab012 | 1 | 14.4 | 14.1 | 6 | 0.5 | 3.5 | 9.2 | 20 | 5.1 | 14.4 | 14.3 | 61 | 0.4 | 2.8 | 6.3 | 20 | >6 |
| Lab013 | 1 | 13.6 | 13.7 | 7 | 0.3 | 2.2 | 5.1 | 20 | >6 | 13.6 | 13.7 | 29 | 0.3 | 2.2 | 5.1 | 20 | >6 |
| Lab014 | 1 | 14.4 | 14.3 | 8 | 0.2 | 1.4 | 3.5 | 20 | >6 | 14.4 | 14.2 | 46 | 0.3 | 2.1 | 5.6 | 20 | >6 |
| Lab016 | 1 | 15.0 | 15.2 | 4 | 0.2 | 1.3 | 4.0 | 20 | >6 | 15.0 | 14.2 | 12 | 0.9 | 6.3 | 18.0 | 20 | 2.3 |
| Lab029 | 1 | 14.4 | 14.3 | 4 | 0.1 | 0.7 | 2.1 | 20 | >6 | 14.4 | 14.4 | 13 | 0.1 | 0.7 | 1.4 | 20 | >6 |
| Lab030 | 1 | 14.4 | 14.6 | 1 | - | - | - | 20 | - | 14.4 | 14.3 | 3 | 0.5 | 3.5 | 7.7 | 20 | 5.5 |
| Lab044 | 1 | 14.4 | 14.1 | 8 | 0.9 | 6.4 | 14.8 | 20 | 2.8 | 14.4 | 14.1 | 8 | 0.9 | 6.4 | 14.8 | 20 | 2.8 |
| Total | - | - | 14.2 | 91 | 0.5 | 3.5 | - | - | - | - | 14.1 | 670 | 0.8 | 5.7 | - | - | - |

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

[TOP](#)

Control D 月統計與累計統計之比較表

| Control D (Lot No.: AE0909D) | | | | | | | | | | | | | | | | | |
|------------------------------|---------------------------------|-----------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2017/07) | | | | | | | | CUM (2016/02/01~2017/07/31) | | | | | | | |
| 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 |
| Lab003 | 1 | 5.8 | 5.7 | 25 | 0.2 | 3.5 | 8.7 | 20 | 5.2 | 5.8 | 5.9 | 146 | 0.2 | 3.4 | 8.5 | 20 | 5.4 |
| Lab006 | 1 | 5.8 | 5.5 | 4 | 0.1 | 1.8 | 8.8 | 20 | >6 | 5.8 | 5.7 | 26 | 0.2 | 3.5 | 8.7 | 20 | 5.2 |
| Lab007 | 1 | 5.8 | 5.7 | 13 | 0.1 | 1.8 | 5.2 | 20 | >6 | 5.8 | 5.4 | 232 | 0.5 | 9.3 | 25.4 | 20 | 1.4 |
| Lab009 | 1 | 5.8 | 5.7 | 4 | 0.1 | 1.8 | 5.2 | 20 | >6 | 5.8 | 6.0 | 58 | 0.4 | 6.7 | 16.8 | 20 | 2.5 |
| Lab010 | 1 | 5.8 | 6.3 | 3 | 0.0 | 0.0 | 8.6 | 20 | >6 | 5.8 | 6.3 | 3 | 0.0 | 0.0 | 8.6 | 20 | >6 |
| Lab011 | 1 | 5.8 | 5.9 | 4 | 0.2 | 3.4 | 8.5 | 20 | 5.4 | 5.8 | 5.7 | 33 | 0.2 | 3.5 | 8.7 | 20 | 5.2 |
| Lab012 | 1 | 5.8 | 5.9 | 6 | 0.1 | 1.7 | 5.1 | 20 | >6 | 5.8 | 5.9 | 61 | 0.2 | 3.4 | 8.5 | 20 | 5.4 |
| Lab013 | 1 | 5.8 | 5.8 | 7 | 0.1 | 1.7 | 3.4 | 20 | >6 | 5.8 | 5.8 | 29 | 0.1 | 1.7 | 3.4 | 20 | >6 |
| Lab014 | 1 | 5.8 | 5.6 | 8 | 0.2 | 3.6 | 10.6 | 20 | 4.6 | 5.8 | 5.6 | 46 | 0.2 | 3.6 | 10.6 | 20 | 4.6 |
| Lab016 | 1 | 5.3 | 5.3 | 4 | 0.3 | 5.7 | 11.3 | 20 | 3.5 | 5.3 | 5.2 | 12 | 0.3 | 5.8 | 13.4 | 20 | 3.1 |
| Lab029 | 1 | 5.8 | 5.6 | 4 | 0.1 | 1.8 | 7.0 | 20 | >6 | 5.8 | 5.7 | 13 | 0.1 | 1.8 | 5.2 | 20 | >6 |
| Lab030 | 1 | 5.8 | 5.6 | 1 | - | - | - | 20 | - | 5.8 | 5.4 | 3 | 0.3 | 5.6 | 18.0 | 20 | 2.3 |
| Lab044 | 1 | 5.8 | 5.8 | 8 | 0.2 | 3.4 | 6.9 | 20 | 5.9 | 5.8 | 5.8 | 8 | 0.2 | 3.4 | 6.9 | 20 | 5.9 |
| Total | - | - | 5.7 | 91 | 0.2 | 3.5 | - | - | - | - | 5.7 | 670 | 0.4 | 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 × 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

[TOP](#)

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