

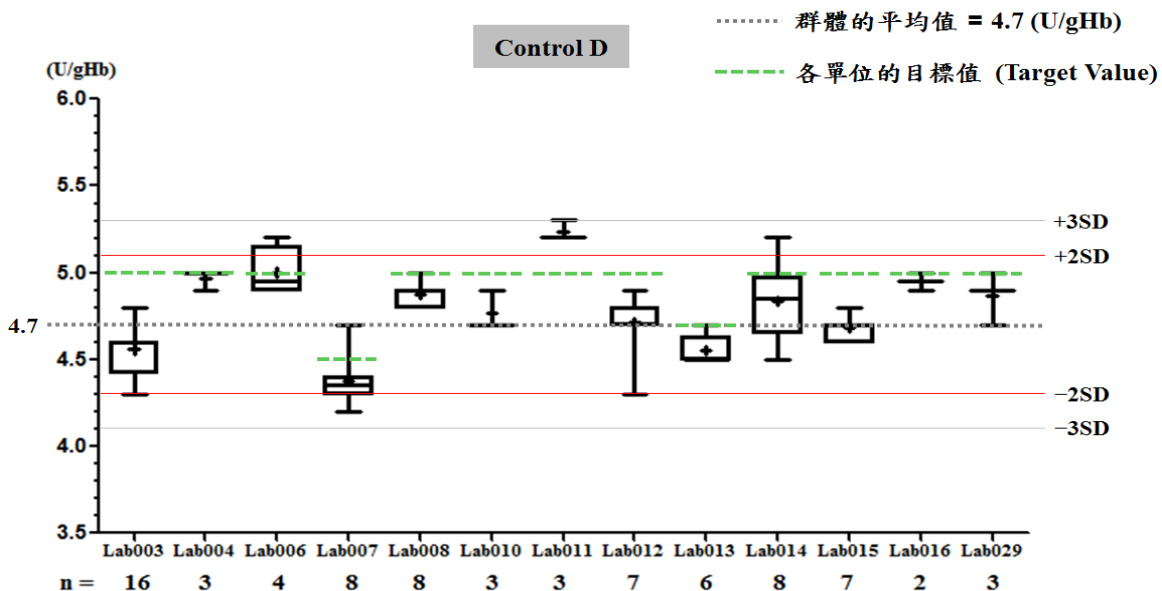
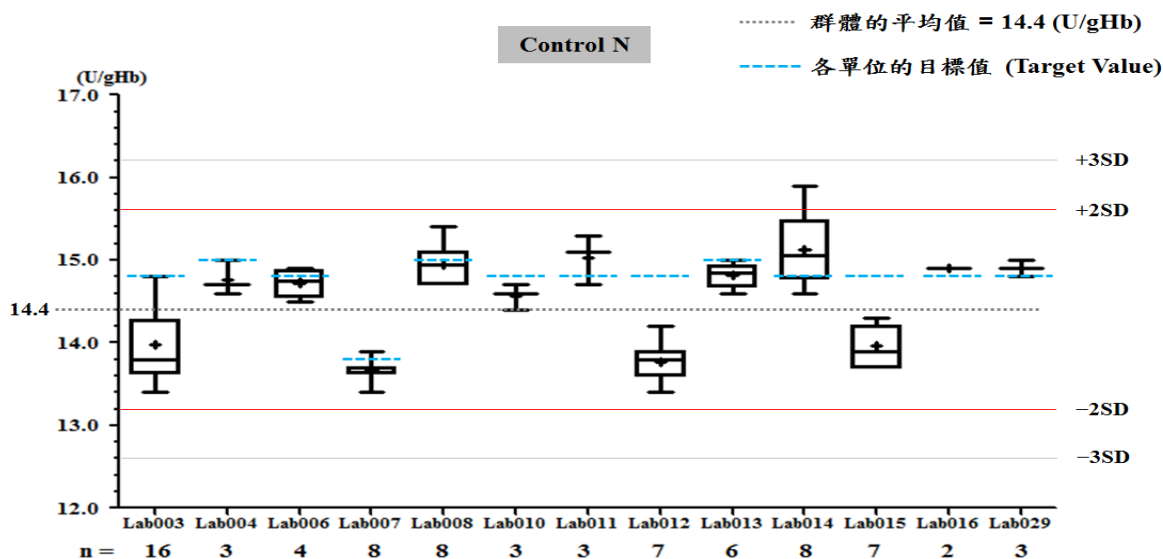
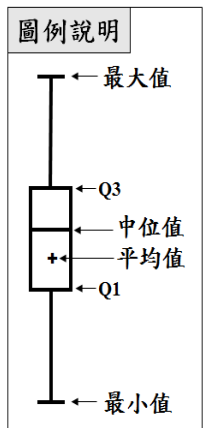
2016年02月G6PD定量檢驗實驗室內部品管計畫報告

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.:AD0326N) | Control D (Lot No.:AD0326D) |
|--------------|--------------------------------|--------------------------------|
| 參加單位 | 13 | 13 |
| 總回報數 (n) | 78 | 78 |
| 中位數 (Median) | 14.6 (U/gHb) | 4.7 (U/gHb) |
| 平均值 (Mean) | 14.4 (U/gHb) | 4.7 (U/gHb) |
| 標準差 (SD) | 0.6 | 0.2 |
| 變異係數 (CV) | 4.2% | 4.3% |
| G6PD 檢驗值範圍 | 13.4 ~ 15.9 (U/gHb) | 4.2 ~ 5.3 (U/gHb) |
| Hb 檢驗值範圍 | 2.3 ~ 2.7 (g/dL) | 2.3 ~ 2.7 (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

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 : AD0326N (2014-04-01 ~ 2100-12-31) Change

列印圖表

檢驗單位 : Lab015

| QC Control Lot No. | Control N | | Control D | |
|--------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | AD0326N | | AD0326D | |
| 檢驗期間 | Month (2016/02) | CUM (2015/11/28~2016/02/29) | Month (2016/02) | CUM (2015/11/28~2016/02/29) |
| 累計點數 (N) | 7 | 26 | 7 | 26 |
| 累計平均值 (Mean) U/gHb | 14.0 | 13.9 | 4.7 | 4.8 |
| 累計標準差 (SD) | 0.2 | 0.3 | 0.1 | 0.1 |
| 累計變異係數 (CV) % | 1.4 | 2.2 | 2.1 | 2.1 |
| 目標值 (Target) U/gHb | 14.8 | 14.8 | 5.0 | 5.0 |
| 總誤差 (TE) % | 8.3 | 10.4 | 10.3 | 8.2 |
| 可容許總誤差 (TEa) % | 20 | 20 | 20 | 20 |
| σ | >6 | >6 | >6 | >6 |

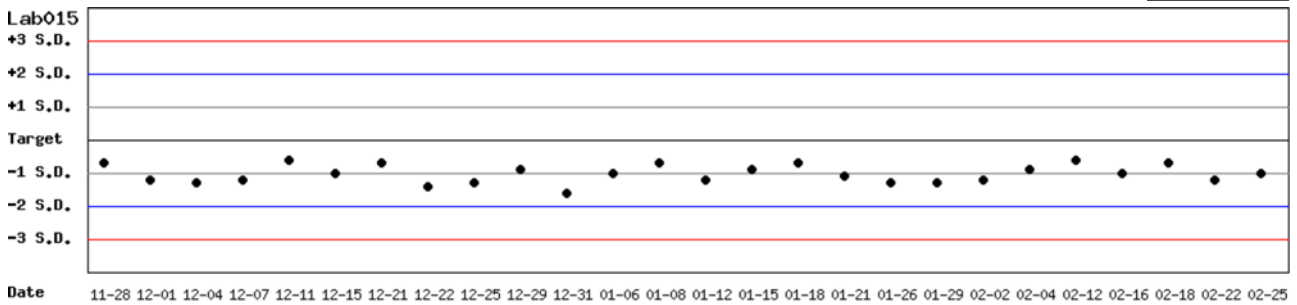
誤差 (Bias)% = $\{ [| \text{累計平均值 (Mean)} - \text{目標值 (Target)} |] / \text{目標值 (Target)} \} \times 100\%$
 總誤差 (TE, Total Error)% = 誤差 (Bias)% + 2 × 累計變異係數 (CV)
 σ (Sigma) = (TEa% - 誤差 (Bias)%) / 累計變異係數 (CV)

月統計 : 2016 02 Change ; 累計期間 (CUM) : 自 2015 11 28 至 2016 02 29 Change

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Control N SDI 分佈圖

Lot No.: AD0326N ; 檢驗期間 : 2015-11-28 至 2016-02-29 ; 目標值 (Target) : 14.8 ; 參考標準差 (SD) : 0.90 單位 : Lab015

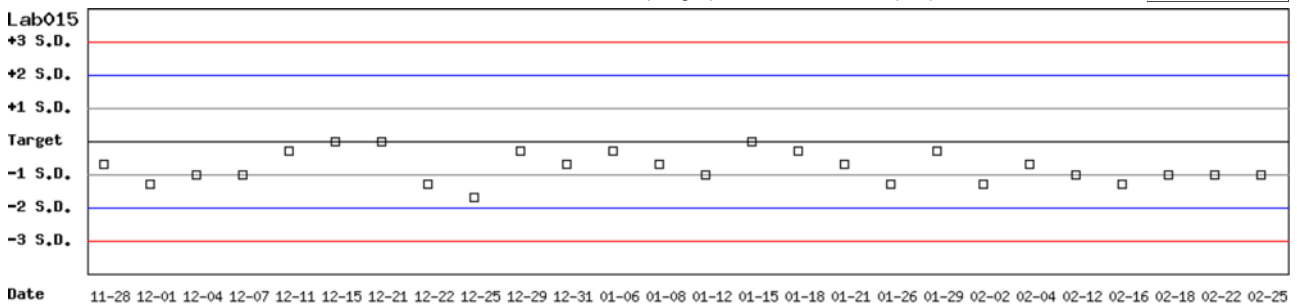


月統計 : 2016 02 Change ; 累計期間 (CUM) : 自 2015 11 28 至 2016 02 29 Change

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Control D SDI 分佈圖

Lot No.: AD0326D ; 檢驗期間 : 2015-11-28 至 2016-02-29 ; 目標值 (Target) : 5.0 ; 參考標準差 (SD) : 0.30 單位 : Lab015



月統計 : 2016 02 Change ; 累計期間 (CUM) : 自 2015 11 28 至 2016 02 29 Change

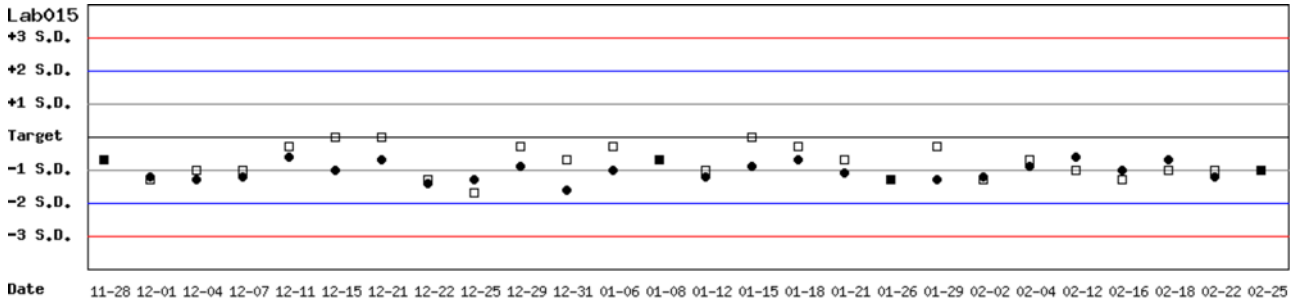
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Control N 及 Control D SDI 分佈圖

Lot No.: AD0326N ; 檢驗期間 : 2015-11-28 至 2016-02-29 ; 目標值 (Target) : 14.8 ; 參考標準差 (SD) : 0.90 (●)

Lot No.: AD0326D ; 檢驗期間 : 2015-11-28 至 2016-02-29 ; 目標值 (Target) : 5.0 ; 參考標準差 (SD) : 0.30 (□)

單位 : Lab015



月統計 : 2016 02 ; 累計期間 (CUM) : 自 2015 11 28 至 2016 02 29

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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 : AD0326N (2014-04-01 ~ 2100-12-31) Change

選擇 Reagent Kit : 1 - Trinity Change

列印總表一

月統計表

統計月份 : 2016 02 Change

| UnitID [⬆] | Reagent Kit (Code) [⬆] | Control N (Lot No.: AD0326N) | | | | | | | | Control D (Lot No.: AD0326D) | | | | | | | |
|------------------------|---------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | 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 | 14.8 | 14.0 | 16 | 0.4 | 2.9 | 11.1 | 20 | 5.0 | 5.0 | 4.6 | 16 | 0.1 | 2.2 | 12.3 | 20 | 5.5 |
| Lab004 | 1 | 15.0 | 14.8 | 3 | 0.2 | 1.4 | 4.0 | 20 | >6 | 5.0 | 5.0 | 3 | 0.1 | 2.0 | 4.0 | 20 | >6 |
| Lab006 | 1 | 14.8 | 14.7 | 4 | 0.2 | 1.4 | 3.4 | 20 | >6 | 5.0 | 5.0 | 4 | 0.1 | 2.0 | 4.0 | 20 | >6 |
| Lab007 | 1 | 13.8 | 13.7 | 8 | 0.1 | 0.7 | 2.2 | 20 | >6 | 4.5 | 4.4 | 8 | 0.2 | 4.5 | 11.3 | 20 | 4.0 |
| Lab008 | 1 | 15.0 | 15.0 | 8 | 0.3 | 2.0 | 4.0 | 20 | >6 | 5.0 | 4.9 | 8 | 0.1 | 2.0 | 6.1 | 20 | >6 |
| Lab010 | 1 | 14.8 | 14.6 | 3 | 0.2 | 1.4 | 4.1 | 20 | >6 | 5.0 | 4.8 | 3 | 0.1 | 2.1 | 8.2 | 20 | >6 |
| Lab011 | 1 | 14.8 | 15.0 | 3 | 0.3 | 2.0 | 5.4 | 20 | >6 | 5.0 | 5.2 | 3 | 0.1 | 1.9 | 7.8 | 20 | >6 |
| Lab012 | 1 | 14.8 | 13.8 | 7 | 0.3 | 2.2 | 11.1 | 20 | >6 | 5.0 | 4.7 | 7 | 0.2 | 4.3 | 14.5 | 20 | 3.3 |
| Lab013 | 1 | 15.0 | 14.8 | 6 | 0.1 | 0.7 | 2.7 | 20 | >6 | 4.7 | 4.6 | 6 | 0.1 | 2.2 | 6.5 | 20 | >6 |
| Lab014 | 1 | 14.8 | 15.1 | 8 | 0.4 | 2.6 | 7.3 | 20 | >6 | 5.0 | 4.8 | 8 | 0.2 | 4.2 | 12.3 | 20 | 3.8 |
| Lab015 | 1 | 14.8 | 14.0 | 7 | 0.2 | 1.4 | 8.3 | 20 | >6 | 5.0 | 4.7 | 7 | 0.1 | 2.1 | 10.3 | 20 | >6 |
| Lab016 | 1 | 14.8 | 14.9 | 2 | - | - | - | 20 | - | 5.0 | 5.0 | 2 | - | - | - | 20 | - |
| Lab029 | 1 | 14.8 | 14.9 | 3 | 0.1 | 0.7 | 2.0 | 20 | >6 | 5.0 | 4.9 | 3 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Total | - | - | 14.4 | 78 | 0.6 | 4.2 | - | - | - | - | 4.7 | 78 | 0.2 | 4.3 | - | - | - |

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 2014 05 01 至 2016 02 29 Change

| UnitID [⬆] | Reagent Kit (Code) [⬆] | Control N (Lot No.: AD0326N) | | | | | | | | Control D (Lot No.: AD0326D) | | | | | | | |
|------------------------|---------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|------------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | 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 |
| Lab001 | 1 | 14.2 | 14.8 | 1 | - | - | - | 20 | - | 4.6 | 5.0 | 1 | - | - | - | 20 | - |
| Lab003 | 1 | 14.8 | 14.6 | 503 | 0.8 | 5.5 | 12.3 | 20 | 3.4 | 5.0 | 4.9 | 503 | 0.3 | 6.1 | 14.2 | 20 | 3.0 |
| Lab004 | 1 | 15.0 | 15.0 | 76 | 0.3 | 2.0 | 4.0 | 20 | >6 | 5.0 | 4.9 | 76 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Lab006 | 1 | 14.8 | 14.8 | 72 | 0.6 | 4.1 | 8.1 | 20 | 4.9 | 5.0 | 4.9 | 72 | 0.3 | 6.1 | 14.2 | 20 | 3.0 |
| Lab007 | 1 | 13.8 | 13.7 | 244 | 0.5 | 3.6 | 8.0 | 20 | 5.4 | 4.5 | 4.5 | 244 | 0.2 | 4.4 | 8.9 | 20 | 4.5 |
| Lab008 | 1 | 15.0 | 14.5 | 127 | 0.7 | 4.8 | 13.0 | 20 | 3.5 | 5.0 | 4.6 | 127 | 0.3 | 6.5 | 21.0 | 20 | 1.8 |
| Lab010 | 1 | 14.8 | 14.3 | 70 | 0.5 | 3.5 | 10.4 | 20 | 4.7 | 5.0 | 4.8 | 70 | 0.2 | 4.2 | 12.3 | 20 | 3.8 |
| Lab011 | 1 | 14.8 | 15.0 | 85 | 0.3 | 2.0 | 5.4 | 20 | >6 | 5.0 | 5.1 | 85 | 0.2 | 3.9 | 9.8 | 20 | 4.6 |
| Lab012 | 1 | 14.8 | 14.3 | 77 | 0.4 | 2.8 | 9.0 | 20 | 5.9 | 5.0 | 4.7 | 77 | 0.3 | 6.4 | 18.8 | 20 | 2.2 |
| Lab013 | 1 | 15.0 | 15.0 | 141 | 0.2 | 1.3 | 2.7 | 20 | >6 | 4.7 | 4.7 | 141 | 0.2 | 4.3 | 8.5 | 20 | 4.7 |
| Lab014 | 1 | 14.8 | 14.7 | 89 | 0.4 | 2.7 | 6.1 | 20 | >6 | 5.0 | 4.7 | 89 | 0.2 | 4.3 | 14.5 | 20 | 3.3 |
| Lab015 | 1 | 14.8 | 14.4 | 137 | 0.8 | 5.6 | 13.8 | 20 | 3.1 | 5.0 | 4.9 | 137 | 0.3 | 6.1 | 14.2 | 20 | 3.0 |
| Lab016 | 1 | 14.8 | 14.9 | 38 | 0.1 | 0.7 | 2.0 | 20 | >6 | 5.0 | 4.9 | 38 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Lab029 | 1 | 14.8 | 14.9 | 85 | 0.4 | 2.7 | 6.0 | 20 | >6 | 5.0 | 4.9 | 85 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Total | - | - | 14.5 | 1745 | 0.7 | 4.8 | - | - | - | - | 4.8 | 1745 | 0.3 | 6.3 | - | - | - |

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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| 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 : AD0326N (2014-04-01 ~ 2100-12-31) Change

選擇 Reagent Kit : 1 - Trinity Change

列印總表二

Control N 月統計與累計統計之比較表

| | | Control N (Lot No.: AD0326N) | | | | | | | | | | | | | | | |
|------------------------|---------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2016/02) | | | | | | | | CUM (2014/05/01~2016/02/29) | | | | | | | |
| 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 |
| Lab001 | 1 | 14.2 | - | 0 | - | - | - | 20 | - | 14.2 | 14.8 | 1 | - | - | - | 20 | - |
| Lab003 | 1 | 14.8 | 14.0 | 16 | 0.4 | 2.9 | 11.1 | 20 | 5.0 | 14.8 | 14.6 | 503 | 0.8 | 5.5 | 12.3 | 20 | 3.4 |
| Lab004 | 1 | 15.0 | 14.8 | 3 | 0.2 | 1.4 | 4.0 | 20 | >6 | 15.0 | 15.0 | 76 | 0.3 | 2.0 | 4.0 | 20 | >6 |
| Lab006 | 1 | 14.8 | 14.7 | 4 | 0.2 | 1.4 | 3.4 | 20 | >6 | 14.8 | 14.8 | 72 | 0.6 | 4.1 | 8.1 | 20 | 4.9 |
| Lab007 | 1 | 13.8 | 13.7 | 8 | 0.1 | 0.7 | 2.2 | 20 | >6 | 13.8 | 13.7 | 244 | 0.5 | 3.6 | 8.0 | 20 | 5.4 |
| Lab008 | 1 | 15.0 | 15.0 | 8 | 0.3 | 2.0 | 4.0 | 20 | >6 | 15.0 | 14.5 | 127 | 0.7 | 4.8 | 13.0 | 20 | 3.5 |
| Lab010 | 1 | 14.8 | 14.6 | 3 | 0.2 | 1.4 | 4.1 | 20 | >6 | 14.8 | 14.3 | 70 | 0.5 | 3.5 | 10.4 | 20 | 4.7 |
| Lab011 | 1 | 14.8 | 15.0 | 3 | 0.3 | 2.0 | 5.4 | 20 | >6 | 14.8 | 15.0 | 85 | 0.3 | 2.0 | 5.4 | 20 | >6 |
| Lab012 | 1 | 14.8 | 13.8 | 7 | 0.3 | 2.2 | 11.1 | 20 | >6 | 14.8 | 14.3 | 77 | 0.4 | 2.8 | 9.0 | 20 | 5.9 |
| Lab013 | 1 | 15.0 | 14.8 | 6 | 0.1 | 0.7 | 2.7 | 20 | >6 | 15.0 | 15.0 | 141 | 0.2 | 1.3 | 2.7 | 20 | >6 |
| Lab014 | 1 | 14.8 | 15.1 | 8 | 0.4 | 2.6 | 7.3 | 20 | >6 | 14.8 | 14.7 | 89 | 0.4 | 2.7 | 6.1 | 20 | >6 |
| Lab015 | 1 | 14.8 | 14.0 | 7 | 0.2 | 1.4 | 8.3 | 20 | >6 | 14.8 | 14.4 | 137 | 0.8 | 5.6 | 13.8 | 20 | 3.1 |
| Lab016 | 1 | 14.8 | 14.9 | 2 | - | - | - | 20 | - | 14.8 | 14.9 | 38 | 0.1 | 0.7 | 2.0 | 20 | >6 |
| Lab029 | 1 | 14.8 | 14.9 | 3 | 0.1 | 0.7 | 2.0 | 20 | >6 | 14.8 | 14.9 | 85 | 0.4 | 2.7 | 6.0 | 20 | >6 |
| Total | - | - | 14.4 | 78 | 0.6 | 4.2 | - | - | - | - | 14.5 | 1745 | 0.7 | 4.8 | - | - | - |

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)

月統計 : 2016 02 Change

累計期間 (CUM) : 自 2014 05 01 至 2016 02 29 Change

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Control D 月統計與累計統計之比較表

| | | Control D (Lot No.: AD0326D) | | | | | | | | | | | | | | | |
|------------------------|---------------------------------|------------------------------|--------------|------------|-----|--------|--------|---------|-----|-----------------------------|--------------|------------|-----|--------|--------|---------|-----|
| | | Month (2016/02) | | | | | | | | CUM (2014/05/01~2016/02/29) | | | | | | | |
| 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 |
| Lab001 | 1 | 4.6 | - | 0 | - | - | - | 20 | - | 4.6 | 5.0 | 1 | - | - | - | 20 | - |
| Lab003 | 1 | 5.0 | 4.6 | 16 | 0.1 | 2.2 | 12.3 | 20 | 5.5 | 5.0 | 4.9 | 503 | 0.3 | 6.1 | 14.2 | 20 | 3.0 |
| Lab004 | 1 | 5.0 | 5.0 | 3 | 0.1 | 2.0 | 4.0 | 20 | >6 | 5.0 | 4.9 | 76 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Lab006 | 1 | 5.0 | 5.0 | 4 | 0.1 | 2.0 | 4.0 | 20 | >6 | 5.0 | 4.9 | 72 | 0.3 | 6.1 | 14.2 | 20 | 3.0 |
| Lab007 | 1 | 4.5 | 4.4 | 8 | 0.2 | 4.5 | 11.3 | 20 | 4.0 | 4.5 | 4.5 | 244 | 0.2 | 4.4 | 8.9 | 20 | 4.5 |
| Lab008 | 1 | 5.0 | 4.9 | 8 | 0.1 | 2.0 | 6.1 | 20 | >6 | 5.0 | 4.6 | 127 | 0.3 | 6.5 | 21.0 | 20 | 1.8 |
| Lab010 | 1 | 5.0 | 4.8 | 3 | 0.1 | 2.1 | 8.2 | 20 | >6 | 5.0 | 4.8 | 70 | 0.2 | 4.2 | 12.3 | 20 | 3.8 |
| Lab011 | 1 | 5.0 | 5.2 | 3 | 0.1 | 1.9 | 7.8 | 20 | >6 | 5.0 | 5.1 | 85 | 0.2 | 3.9 | 9.8 | 20 | 4.6 |
| Lab012 | 1 | 5.0 | 4.7 | 7 | 0.2 | 4.3 | 14.5 | 20 | 3.3 | 5.0 | 4.7 | 77 | 0.3 | 6.4 | 18.8 | 20 | 2.2 |
| Lab013 | 1 | 4.7 | 4.6 | 6 | 0.1 | 2.2 | 6.5 | 20 | >6 | 4.7 | 4.7 | 141 | 0.2 | 4.3 | 8.5 | 20 | 4.7 |
| Lab014 | 1 | 5.0 | 4.8 | 8 | 0.2 | 4.2 | 12.3 | 20 | 3.8 | 5.0 | 4.7 | 89 | 0.2 | 4.3 | 14.5 | 20 | 3.3 |
| Lab015 | 1 | 5.0 | 4.7 | 7 | 0.1 | 2.1 | 10.3 | 20 | >6 | 5.0 | 4.9 | 137 | 0.3 | 6.1 | 14.2 | 20 | 3.0 |
| Lab016 | 1 | 5.0 | 5.0 | 2 | - | - | - | 20 | - | 5.0 | 4.9 | 38 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Lab029 | 1 | 5.0 | 4.9 | 3 | 0.2 | 4.1 | 10.2 | 20 | 4.4 | 5.0 | 4.9 | 85 | 0.2 | 4.1 | 10.2 | 20 | 4.4 |
| Total | - | - | 4.7 | 78 | 0.2 | 4.3 | - | - | - | - | 4.8 | 1745 | 0.3 | 6.3 | - | - | - |

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 : 2016 02 Change

累計期間 (CUM) : 自 2014 05 01 至 2016 02 29 Change

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