

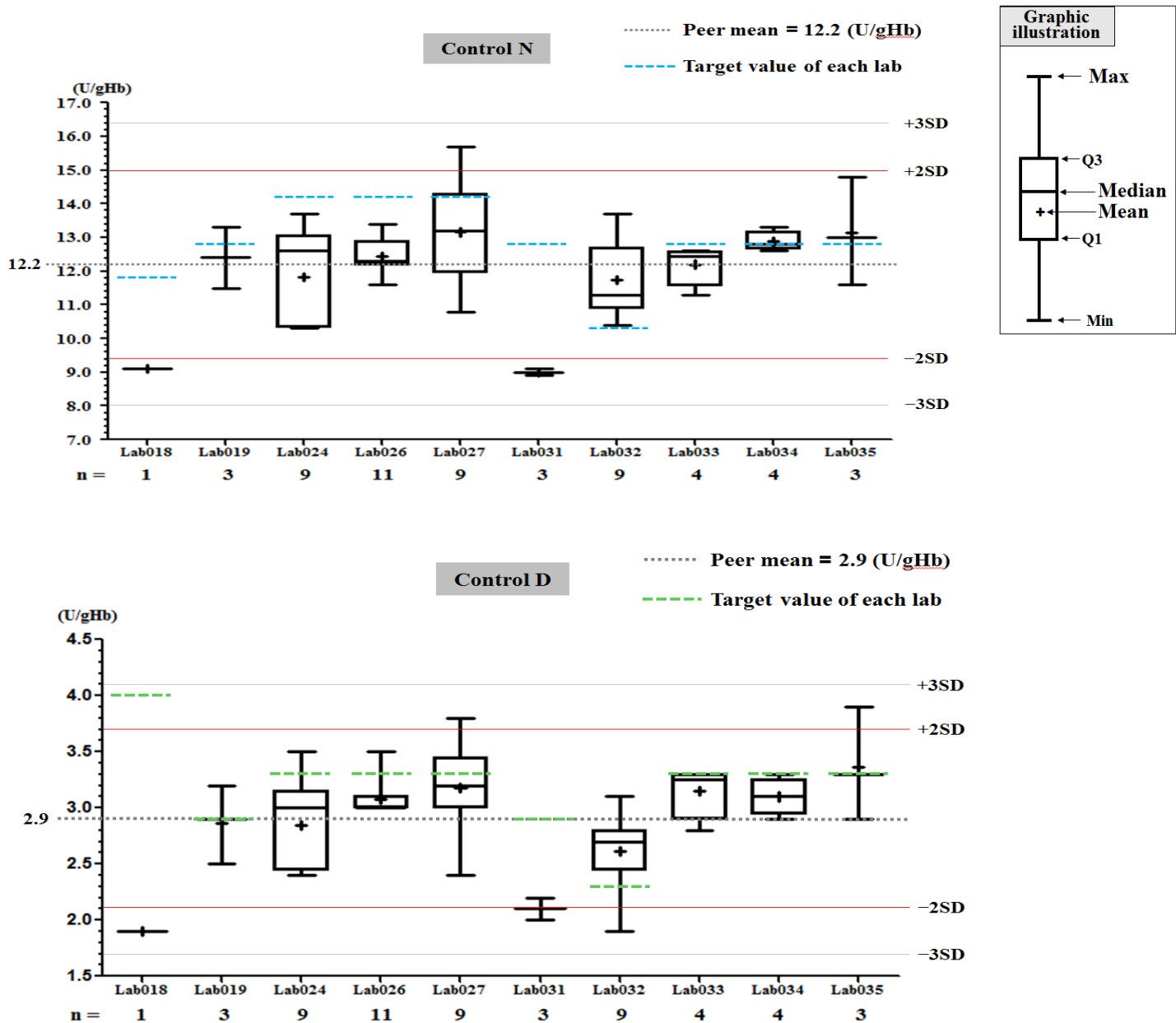
Summary Report of IQC program for G6PD Quantitative Test - March 2015 -

I. The statistic results of all laboratories in this month

| G6PD | Control N (Lot No.:AC1203N) | Control D (Lot No.:AC1203D) |
|-----------------------------|--------------------------------|--------------------------------|
| Labs | 10 | 10 |
| Received results number (n) | 56 | 56 |
| Median | 12.5 (U/gHb) | 3.0 (U/gHb) |
| Mean | 12.2 (U/gHb) | 2.9 (U/gHb) |
| SD | 1.4 | 0.4 |
| CV | 11.5% | 13.8% |
| Range of G6PD | 8.9 ~ 15.7 (U/gHb) | 1.9 ~ 3.9 (U/gHb) |
| Range of Hb | 1.9 ~ 3.0 (g/dL) | 1.5 ~ 3.3 (g/dL) |

*The statistic results are calculated from all labs reported in this month

II. The distribution of G6PD reported for each lab in this survey



QC Chart of Internal Quality Control (IQC)for G6PD Quantitative Test

Select LotNo : AC1203N (2014-01-01 ~ 2100-12-31) [Change](#)

[Print Table](#)

Lab026

| QC Control Lot No. | Control N | | Control D | |
|---------------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| | AC1203N | | AC1203D | |
| Duration of the Analyzing | Month (2015/03) | CUM (2015/01/28~2015/03/31) | Month (2015/03) | CUM (2015/01/28~2015/03/31) |
| Runs (N) | 11 | 26 | 11 | 26 |
| Mean (U/gHb) | 12.4 | 12.2 | 3.1 | 3.0 |
| SD | 0.5 | 0.6 | 0.2 | 0.2 |
| CV (%) | 4.0 | 4.9 | 6.5 | 6.7 |
| Target Value (U/gHb) | 14.2 | 14.2 | 3.3 | 3.3 |
| Total Error (%) | 20.7 | 23.9 | 19.0 | 22.4 |
| TEa (%) | 20 | 20 | 20 | 20 |
| σ | 1.8 | 1.2 | 2.1 | 1.6 |

Bias (%) = [(| Mean - Target |) / Target] x 100%

TE : Total Error(%) = Bias (%) + 2 x CV (%)

σ (Sigma) = [TEa% - Bias (%)] / CV (%)

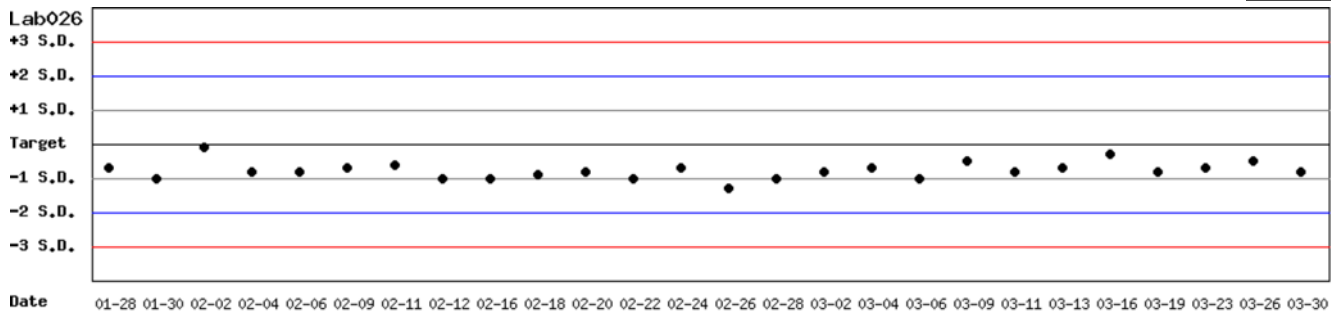
Month : 2015 03 [Change](#) ; Cumulative : from 2015 01 28 to 2015 03 31 [Change](#)

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Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-01-28 to 2015-03-31 ; Target : 14.2 ; SD : 2.6

Lab026



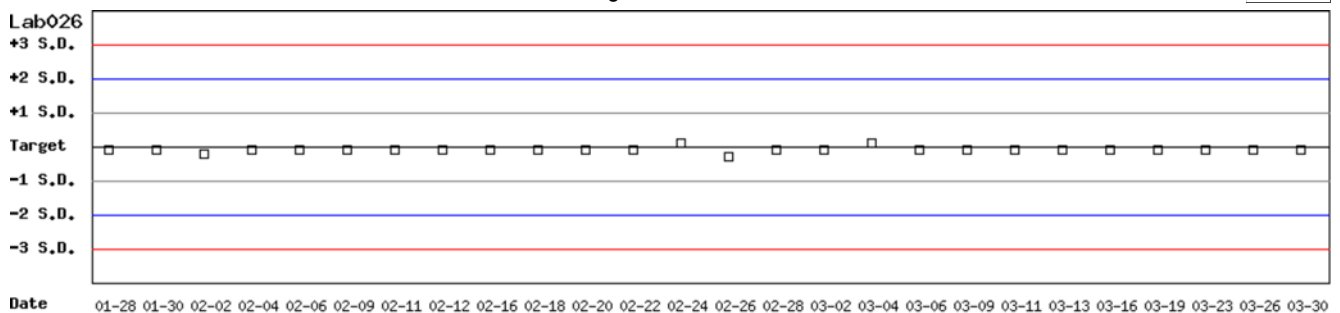
Month : 2015 03 [Change](#) ; Cumulative : from 2015 01 28 to 2015 03 31 [Change](#)

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Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2015-01-28 to 2015-03-31 ; Target : 3.3 ; SD : 3.1

Lab026



Month : 2015 03 [Change](#) ; Cumulative : from 2015 01 28 to 2015 03 31 [Change](#)

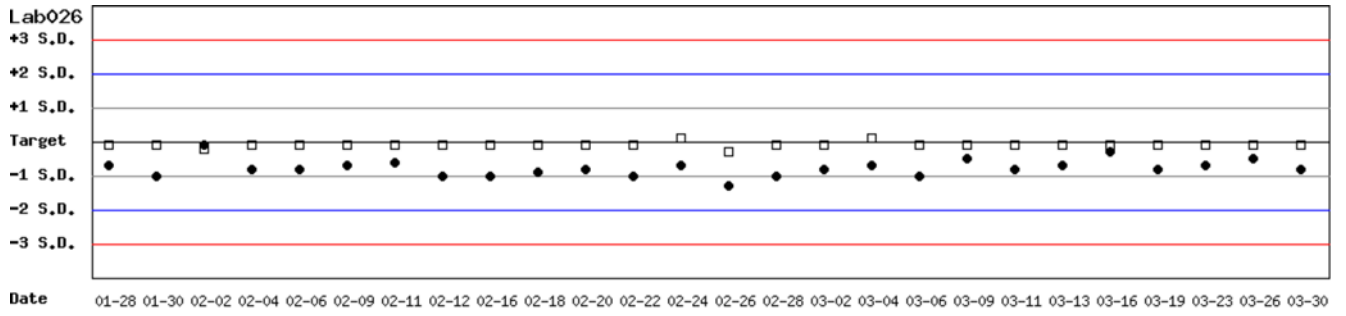
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Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-01-28 to 2015-03-31 ; Target : 14.2 ; SD : 2.6 (●)

Lot No.: AC1203D ; Duration : 2015-01-28 to 2015-03-31 ; Target : 3.3 ; SD : 3.1 (□)

Lab026



Month : 2015 03 ; Cumulative : from 2015 01 28 to 2015 03 31

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Peer Group Statistics (Table 1)

Select LotNo : AC1203N (2014-01-01 ~ 2100-12-31) ▼ Change

Select Reagent Kit : 2 - AMP ▼ Change

Print Table 1

Monthly

Month : 2015 ▼ 03 ▼ Change

| UnitID [↑] | Reagent Kit (Code) [↑] | Control N (Lot No.: AC1203N) | | | | | | | | Control D (Lot No.: AC1203D) | | | | | | | |
|------------------------|------------------------------------|------------------------------|-----------------|---------------|-----|-----------|-----------|------------|------|------------------------------|-----------------|---------------|-----|-----------|-----------|------------|------|
| | | 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 |
| Lab018 | 2 | 11.8 | 9.1 | 1 | - | - | - | 20 | - | 4.0 | 1.9 | 1 | - | - | - | 20 | - |
| Lab019 | 2 | 12.8 | 12.4 | 3 | 0.9 | 7.3 | 17.6 | 20 | 2.3 | 2.9 | 2.9 | 3 | 0.4 | 13.8 | 27.6 | 20 | 1.4 |
| Lab024 | 2 | 11.6 | 11.8 | 9 | 1.4 | 11.9 | 25.5 | 17 | 1.3 | 2.7 | 2.8 | 9 | 0.4 | 14.3 | 32.3 | 17 | 0.9 |
| Lab026 | 2 | 14.2 | 12.4 | 11 | 0.5 | 4.0 | 20.7 | 20 | 1.8 | 3.3 | 3.1 | 11 | 0.2 | 6.5 | 19.0 | 20 | 2.1 |
| Lab027 | 2 | 14.2 | 13.2 | 9 | 1.5 | 11.4 | 29.8 | 20 | 1.1 | 3.3 | 3.2 | 9 | 0.4 | 12.5 | 28.0 | 20 | 1.4 |
| Lab031 | 2 | 12.8 | 9.0 | 3 | 0.1 | 1.1 | 31.9 | 20 | -8.8 | 2.9 | 2.1 | 3 | 0.1 | 4.8 | 37.1 | 20 | -1.6 |
| Lab032 | 2 | 13.8 | 11.7 | 9 | 1.1 | 9.4 | 34.0 | 20 | 0.5 | 3.5 | 2.6 | 9 | 0.3 | 11.5 | 48.8 | 20 | -0.5 |
| Lab033 | 2 | 12.8 | 12.2 | 4 | 0.6 | 4.9 | 14.5 | 20 | 3.1 | 2.9 | 3.2 | 4 | 0.2 | 6.3 | 22.8 | 20 | 1.5 |
| Lab034 | 2 | 12.8 | 12.9 | 4 | 0.3 | 2.3 | 5.4 | 20 | >6 | 2.9 | 3.1 | 4 | 0.2 | 6.5 | 19.8 | 20 | 2.0 |
| Lab035 | 2 | 12.8 | 13.1 | 3 | 1.6 | 12.2 | 26.8 | 20 | 1.4 | 2.9 | 3.4 | 3 | 0.5 | 14.7 | 46.7 | 20 | 0.2 |
| Total | - | - | 12.2 | 56 | 1.4 | 11.5 | - | - | - | - | 2.9 | 56 | 0.4 | 13.8 | - | - | - |

Bias (%) = [(| Mean - Target |) / Target] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%)] / CV (%)

[TOP](#)

Cumulative

Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2015 ▼ 03 ▼ 31 ▼ Change

| UnitID [↑] | Reagent Kit (Code) [↑] | Control N (Lot No.: AC1203N) | | | | | | | | Control D (Lot No.: AC1203D) | | | | | | | |
|------------------------|------------------------------------|------------------------------|-----------------|---------------|-----|-----------|-----------|------------|------|------------------------------|-----------------|---------------|-----|-----------|-----------|------------|------|
| | | 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 |
| Lab017 | 2 | 14.2 | 16.5 | 1 | - | - | - | 20 | - | 3.3 | 5.2 | 1 | - | - | - | 20 | - |
| Lab018 | 2 | 11.8 | 10.1 | 38 | 1.7 | 16.8 | 48.1 | 20 | 0.3 | 4.0 | 2.3 | 38 | 1.4 | 60.9 | 164.2 | 20 | -0.4 |
| Lab019 | 2 | 12.8 | 11.6 | 55 | 1.1 | 9.5 | 28.3 | 20 | 1.1 | 2.9 | 2.6 | 55 | 0.3 | 11.5 | 33.4 | 20 | 0.8 |
| Lab024 | 2 | 11.6 | 10.7 | 19 | 1.5 | 14.0 | 35.8 | 17 | 0.7 | 2.7 | 2.6 | 19 | 0.5 | 19.2 | 42.2 | 17 | 0.7 |
| Lab026 | 2 | 14.2 | 11.7 | 143 | 1.4 | 12.0 | 41.5 | 20 | 0.2 | 3.3 | 2.8 | 143 | 0.5 | 17.9 | 50.9 | 20 | 0.3 |
| Lab027 | 2 | 14.2 | 11.5 | 79 | 1.6 | 13.9 | 46.8 | 20 | 0.1 | 3.3 | 2.7 | 79 | 0.5 | 18.5 | 55.2 | 20 | 0.1 |
| Lab028 | 2 | 14.2 | 13.1 | 68 | 1.4 | 10.7 | 29.1 | 20 | 1.1 | 3.3 | 3.2 | 68 | 0.8 | 25.0 | 53.0 | 20 | 0.7 |
| Lab031 | 2 | 12.8 | 9.9 | 41 | 1.5 | 15.2 | 53.0 | 20 | -0.2 | 2.9 | 2.3 | 41 | 0.4 | 17.4 | 55.5 | 20 | 0.0 |
| Lab032 | 2 | 13.8 | 10.1 | 109 | 1.3 | 12.9 | 52.6 | 20 | -0.5 | 3.5 | 2.3 | 109 | 0.4 | 17.4 | 69.1 | 20 | -0.8 |
| Lab033 | 2 | 12.8 | 11.8 | 53 | 0.9 | 7.6 | 23.1 | 20 | 1.6 | 2.9 | 2.9 | 53 | 0.3 | 10.3 | 20.7 | 20 | 1.9 |
| Lab034 | 2 | 12.8 | 12.7 | 6 | 0.4 | 3.1 | 7.1 | 20 | >6 | 2.9 | 3.1 | 6 | 0.1 | 3.2 | 13.3 | 20 | 4.1 |
| Lab035 | 2 | 12.8 | 13.1 | 4 | 1.3 | 9.9 | 22.2 | 20 | 1.8 | 2.9 | 3.4 | 4 | 0.4 | 11.8 | 40.8 | 20 | 0.2 |
| Total | - | - | 11.3 | 616 | 1.7 | 15.0 | - | - | - | - | 2.7 | 616 | 0.6 | 22.2 | - | - | - |

Bias (%) = [(| Mean - Target |) / Target] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%)] / CV (%)

[TOP](#)

| Reagent Kit | Reagent Code |
|-------------|--------------|
| AMP | 2 |

Peer Group Statistics (Table 2)

Select LotNo : AC1203N (2014-01-01 ~ 2100-12-31) ▼ Change

Select Reagent Kit : 2 - AMP ▼ Change

Print Table 2

Control N Month vs. Cumulative

| | | Control N (Lot No.: AC1203N) | | | | | | | | | | | | | | | |
|------------------------|----------------------|------------------------------|--------------|------------|-----|--------|--------|---------|------|-----------------------------|--------------|------------|-----|--------|--------|---------|------|
| | | Month (2015/03) | | | | | | | | CUM (2014/02/01~2015/03/31) | | | | | | | |
| 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 |
| Lab017 | 2 | 14.2 | - | 0 | - | - | - | 20 | - | 14.2 | 16.5 | 1 | - | - | - | 20 | - |
| Lab018 | 2 | 11.8 | 9.1 | 1 | - | - | - | 20 | - | 11.8 | 10.1 | 38 | 1.7 | 16.8 | 48.1 | 20 | 0.3 |
| Lab019 | 2 | 12.8 | 12.4 | 3 | 0.9 | 7.3 | 17.6 | 20 | 2.3 | 12.8 | 11.6 | 55 | 1.1 | 9.5 | 28.3 | 20 | 1.1 |
| Lab024 | 2 | 11.6 | 11.8 | 9 | 1.4 | 11.9 | 25.5 | 17 | 1.3 | 11.6 | 10.7 | 19 | 1.5 | 14.0 | 35.8 | 17 | 0.7 |
| Lab026 | 2 | 14.2 | 12.4 | 11 | 0.5 | 4.0 | 20.7 | 20 | 1.8 | 14.2 | 11.7 | 143 | 1.4 | 12.0 | 41.5 | 20 | 0.2 |
| Lab027 | 2 | 14.2 | 13.2 | 9 | 1.5 | 11.4 | 29.8 | 20 | 1.1 | 14.2 | 11.5 | 79 | 1.6 | 13.9 | 46.8 | 20 | 0.1 |
| Lab028 | 2 | 14.2 | - | 0 | - | - | - | 20 | - | 14.2 | 13.1 | 68 | 1.4 | 10.7 | 29.1 | 20 | 1.1 |
| Lab031 | 2 | 12.8 | 9.0 | 3 | 0.1 | 1.1 | 31.9 | 20 | -8.8 | 12.8 | 9.9 | 41 | 1.5 | 15.2 | 53.0 | 20 | -0.2 |
| Lab032 | 2 | 13.8 | 11.7 | 9 | 1.1 | 9.4 | 34.0 | 20 | 0.5 | 13.8 | 10.1 | 109 | 1.3 | 12.9 | 52.6 | 20 | -0.5 |
| Lab033 | 2 | 12.8 | 12.2 | 4 | 0.6 | 4.9 | 14.5 | 20 | 3.1 | 12.8 | 11.8 | 53 | 0.9 | 7.6 | 23.1 | 20 | 1.6 |
| Lab034 | 2 | 12.8 | 12.9 | 4 | 0.3 | 2.3 | 5.4 | 20 | >6 | 12.8 | 12.7 | 6 | 0.4 | 3.1 | 7.1 | 20 | >6 |
| Lab035 | 2 | 12.8 | 13.1 | 3 | 1.6 | 12.2 | 26.8 | 20 | 1.4 | 12.8 | 13.1 | 4 | 1.3 | 9.9 | 22.2 | 20 | 1.8 |
| Total | - | - | 12.2 | 56 | 1.4 | 11.5 | - | - | - | - | 11.3 | 616 | 1.7 | 15.0 | - | - | - |

Bias (%) = [(| Mean - Target |) / Target] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%)] / CV (%)

Month : 2015 ▼ 03 ▼ Change

Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2015 ▼ 03 ▼ 31 ▼ Change

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Control D Month vs. Cumulative

| | | Control D (Lot No.: AC1203D) | | | | | | | | | | | | | | | |
|------------------------|----------------------|------------------------------|--------------|------------|-----|--------|--------|---------|------|-----------------------------|--------------|------------|-----|--------|--------|---------|------|
| | | Month (2015/03) | | | | | | | | CUM (2014/02/01~2015/03/31) | | | | | | | |
| 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 |
| Lab017 | 2 | 3.3 | - | 0 | - | - | - | 20 | - | 3.3 | 5.2 | 1 | - | - | - | 20 | - |
| Lab018 | 2 | 4.0 | 1.9 | 1 | - | - | - | 20 | - | 4.0 | 2.3 | 38 | 1.4 | 60.9 | 164.2 | 20 | -0.4 |
| Lab019 | 2 | 2.9 | 2.9 | 3 | 0.4 | 13.8 | 27.6 | 20 | 1.4 | 2.9 | 2.6 | 55 | 0.3 | 11.5 | 33.4 | 20 | 0.8 |
| Lab024 | 2 | 2.7 | 2.8 | 9 | 0.4 | 14.3 | 32.3 | 17 | 0.9 | 2.7 | 2.6 | 19 | 0.5 | 19.2 | 42.2 | 17 | 0.7 |
| Lab026 | 2 | 3.3 | 3.1 | 11 | 0.2 | 6.5 | 19.0 | 20 | 2.1 | 3.3 | 2.8 | 143 | 0.5 | 17.9 | 50.9 | 20 | 0.3 |
| Lab027 | 2 | 3.3 | 3.2 | 9 | 0.4 | 12.5 | 28.0 | 20 | 1.4 | 3.3 | 2.7 | 79 | 0.5 | 18.5 | 55.2 | 20 | 0.1 |
| Lab028 | 2 | 3.3 | - | 0 | - | - | - | 20 | - | 3.3 | 3.2 | 68 | 0.8 | 25.0 | 53.0 | 20 | 0.7 |
| Lab031 | 2 | 2.9 | 2.1 | 3 | 0.1 | 4.8 | 37.1 | 20 | -1.6 | 2.9 | 2.3 | 41 | 0.4 | 17.4 | 55.5 | 20 | 0.0 |
| Lab032 | 2 | 3.5 | 2.6 | 9 | 0.3 | 11.5 | 48.8 | 20 | -0.5 | 3.5 | 2.3 | 109 | 0.4 | 17.4 | 69.1 | 20 | -0.8 |
| Lab033 | 2 | 2.9 | 3.2 | 4 | 0.2 | 6.3 | 22.8 | 20 | 1.5 | 2.9 | 2.9 | 53 | 0.3 | 10.3 | 20.7 | 20 | 1.9 |
| Lab034 | 2 | 2.9 | 3.1 | 4 | 0.2 | 6.5 | 19.8 | 20 | 2.0 | 2.9 | 3.1 | 6 | 0.1 | 3.2 | 13.3 | 20 | 4.1 |
| Lab035 | 2 | 2.9 | 3.4 | 3 | 0.5 | 14.7 | 46.7 | 20 | 0.2 | 2.9 | 3.4 | 4 | 0.4 | 11.8 | 40.8 | 20 | 0.2 |
| Total | - | - | 2.9 | 56 | 0.4 | 13.8 | - | - | - | - | 2.7 | 616 | 0.6 | 22.2 | - | - | - |

Bias (%) = [(| Mean - Target |) / Target] x 100%

TE : Total Error(%) = Bias (%) + 2 × CV (%)

σ (Sigma) = [TEa% - Bias (%)] / CV (%)

Month : 2015 ▼ 03 ▼ Change

Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2015 ▼ 03 ▼ 31 ▼ Change

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| Reagent Kit | Reagent Code |
|-------------|--------------|
| AMP | 2 |