

Summary Report of IQC program for G6PD Quantitative Test - AMP Group - February 2017 -

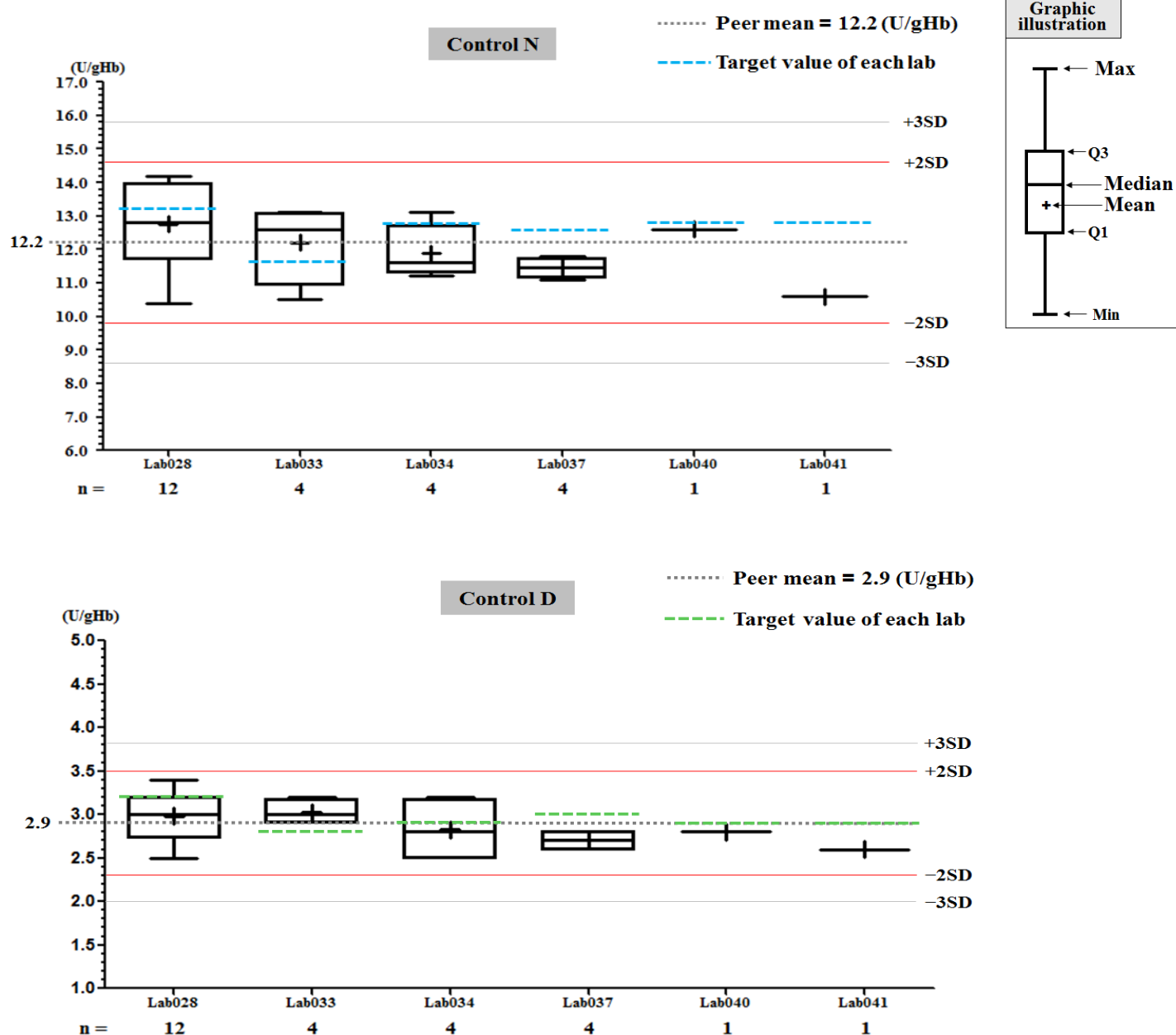
I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:AC1203N)	Control D (Lot No.:AC1203D)
Labs	6	6
Received results number (n)	26	26
Median	12.1 (U/gHb)	2.9 (U/gHb)
Mean	12.2 (U/gHb)	2.9 (U/gHb)
SD	1.2	0.3
CV	9.8%	10.3%
Range of G6PD	10.4 ~ 14.2 (U/gHb)	2.5 ~ 3.4 (U/gHb)
Range of Hb	2.5 ~ 3.4 (g/dL)	2.5 ~ 3.5 (g/dL)

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

** G6PD Method = AMP reagent kit, 37°C

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](#)

Lab033

	Control N		Control D	
QC Control Lot No.	AC1203N		AC1203D	
Duration of the Analyzing	Month (2017/02)	CUM (2016/09/08~2017/02/28)	Month (2017/02)	CUM (2016/09/08~2017/02/28)
Runs (N)	4	26	4	26
Mean (U/gHb)	12.2	11.7	3.0	2.8
SD	1.2	0.8	0.2	0.3
CV (%)	9.8	6.8	6.7	10.7
Target Value (U/gHb)	11.6	11.6	2.8	2.8
Total Error (%)	24.8	14.5	20.5	21.4
TEa (%)	20	20	20	20
σ	1.5	2.8	1.9	1.9

Bias (%) = $\left[\frac{(\text{Mean} - \text{Target})}{\text{Target}} \right] \times 100\%$

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

σ (Sigma) = $\left[\frac{\text{TEa}\% - \text{Bias}\%}{\text{CV}\%} \right]$

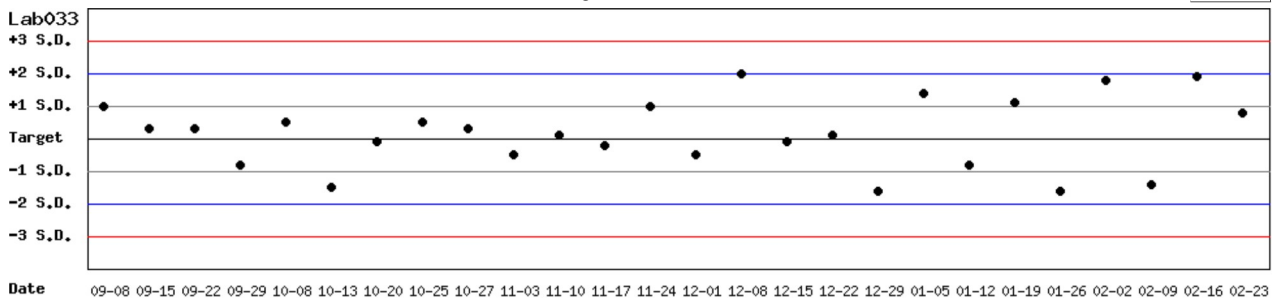
Month : 2017 02 [Change](#) ; Cumulative : from 2016 09 08 to 2017 02 28 [Change](#)

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Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-09-08 to 2017-02-28 ; Target : 11.6 ; SD : 0.80

Lab033



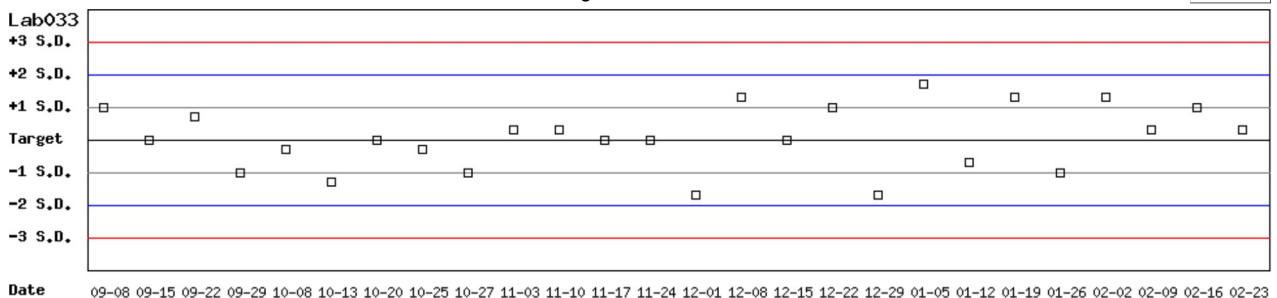
Month : 2017 02 [Change](#) ; Cumulative : from 2016 09 08 to 2017 02 28 [Change](#)

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Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2016-09-08 to 2017-02-28 ; Target : 2.8 ; SD : 0.30

Lab033



Month : 2017 02 [Change](#) ; Cumulative : from 2016 09 08 to 2017 02 28 [Change](#)

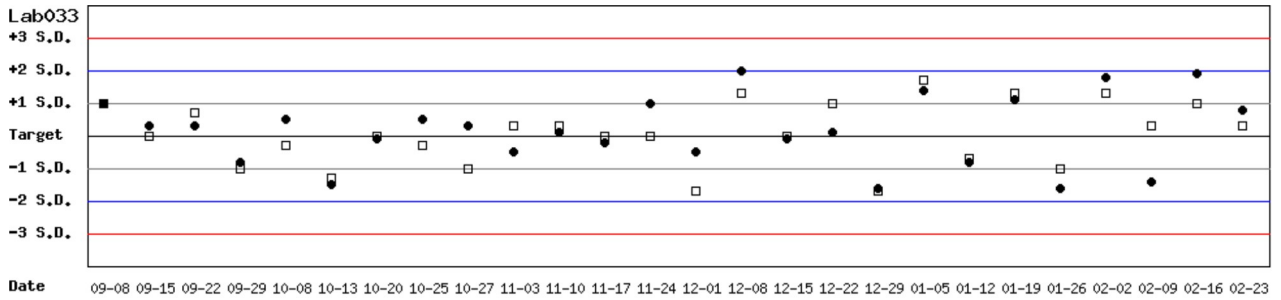
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Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-09-08 to 2017-02-28 ; Target : 11.6 ; SD : 0.80 (●)

Lot No.: AC1203D ; Duration : 2016-09-08 to 2017-02-28 ; Target : 2.8 ; SD : 0.30 (□)

Lab033



Month : 2017 02 Change ; Cumulative : from 2016 09 08 to 2017 02 28 Change

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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 : 2017 02 Change

		Control N (Lot No.: AC1203N)									Control D (Lot No.: AC1203D)							
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
Lab028	2	13.2	12.8	12	1.3	10.2	23.3	20	1.7		3.2	3.0	12	0.3	10.0	26.3	20	1.4
Lab033	2	11.6	12.2	4	1.2	9.8	24.8	20	1.5		2.8	3.0	4	0.2	6.7	20.5	20	1.9
Lab034	2	12.8	11.9	4	0.8	6.7	20.5	20	1.9		2.9	2.8	4	0.4	14.3	32.0	20	1.2
Lab037	2	12.6	11.5	4	0.3	2.6	13.9	20	4.3		3.0	2.7	4	0.1	3.7	17.4	20	2.7
Lab040	2	12.8	12.6	1	-	-	-	20	-		2.9	2.8	1	-	-	-	20	-
Lab041	2	12.8	10.6	1	-	-	-	20	-		2.9	2.6	1	-	-	-	20	-
Total	-	-	12.2	26	1.2	9.8	-	-	-		-	2.9	26	0.3	10.3	-	-	-

Bias (%) = $\left[\left(\left| \text{Mean} - \text{Target} \right| \right) / \text{Target} \right] \times 100\%$

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

σ (Sigma) = $[\text{TEa\%} - \text{Bias (\%)}] / \text{CV (\%)}$

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Cumulative

Cumulative : from 2014 02 01 to 2017 02 28 Change

		Control N (Lot No.: AC1203N)									Control D (Lot No.: AC1203D)							
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	13.8	36	1.6	11.6	26.0	20	1.5		3.3	3.9	36	1.4	35.9	90.0	20	0.1
Lab018	2	10.9	10.9	113	1.3	11.9	23.9	20	1.7		2.5	2.6	113	0.9	34.6	73.2	20	0.5
Lab019	2	12.1	12.2	153	1.1	9.0	18.9	20	2.1		2.8	2.8	153	0.4	14.3	28.6	20	1.4
Lab020	2	12.8	11.7	15	1.4	12.0	32.5	20	1.0		2.9	2.7	15	0.5	18.5	43.9	20	0.7
Lab021	2	12.3	13.5	88	1.0	7.4	24.6	20	1.4		2.8	3.2	88	0.3	9.4	33.0	20	0.6
Lab022	2	14.2	11.5	63	1.2	10.4	39.9	20	0.1		3.3	2.9	63	0.3	10.3	32.8	20	0.8
Lab024	2	11.6	11.1	58	1.2	10.8	25.9	20	1.5		2.7	2.7	58	0.3	11.1	22.2	20	1.8
Lab026	2	11.6	11.5	212	1.6	13.9	28.7	36	2.5		2.7	2.8	212	0.5	17.9	39.4	36	1.8
Lab027	2	12.3	11.8	151	1.6	13.6	31.2	20	1.2		2.9	2.7	151	0.5	18.5	43.9	20	0.7
Lab028	2	13.2	13.6	325	1.2	8.8	20.7	20	1.9		3.2	3.3	325	0.5	15.2	33.4	20	1.1
Lab031	2	12.8	10.4	89	1.5	14.4	47.6	20	0.1		2.9	2.5	89	0.5	20.0	53.8	20	0.3
Lab032	2	12.3	11.5	222	1.9	16.5	39.5	20	0.8		2.9	2.7	222	0.5	18.5	43.9	20	0.7
Lab033	2	11.6	12.0	147	1.0	8.3	20.1	20	2.0		2.8	2.9	147	0.3	10.3	24.3	20	1.6
Lab034	2	12.8	12.3	86	0.7	5.7	15.3	20	2.8		2.9	2.9	86	0.3	10.3	20.7	20	1.9
Lab035	2	12.8	12.4	55	0.7	5.6	14.4	20	3.0		2.9	2.8	55	0.3	10.7	24.9	20	1.5
Lab037	2	12.6	12.2	61	1.2	9.8	22.8	20	1.7		3.0	2.9	61	0.4	13.8	30.9	20	1.2
Lab038	2	12.8	12.7	60	1.0	7.9	16.5	20	2.4		2.9	3.2	60	0.5	15.6	41.6	20	0.6
Lab040	2	12.8	12.1	21	0.5	4.1	13.7	20	3.5		2.9	2.6	21	0.3	11.5	33.4	20	0.8
Lab041	2	12.8	10.6	1	-	-	-	20	-		2.9	2.6	1	-	-	-	20	-
Total	-	-	12.1	1956	1.6	13.2	-	-	-		-	2.9	1956	0.6	20.7	-	-	-

Bias (%) = $\left[\left(\left| \text{Mean} - \text{Target} \right| \right) / \text{Target} \right] \times 100\%$

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

σ (Sigma) = $[\text{TEa\%} - \text{Bias (\%)}] / \text{CV (\%)}$

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Reagent Kit	Reagent Code
AMP	2

Peer Group Statistics (Table 2)

Select LotNo :

Select Reagent Kit :

[Print Table 2](#)

Control N Month vs. Cumulative

Control N (Lot No.: AC1203N)																	
Month (2017/02)										CUM (2014/02/01~2017/02/28)							
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	13.8	36	1.6	11.6	26.0	20	1.5
Lab018	2	10.9	-	0	-	-	-	20	-	10.9	10.9	113	1.3	11.9	23.9	20	1.7
Lab019	2	12.1	-	0	-	-	-	20	-	12.1	12.2	153	1.1	9.0	18.9	20	2.1
Lab020	2	12.8	-	0	-	-	-	20	-	12.8	11.7	15	1.4	12.0	32.5	20	1.0
Lab021	2	12.3	-	0	-	-	-	20	-	12.3	13.5	88	1.0	7.4	24.6	20	1.4
Lab022	2	14.2	-	0	-	-	-	20	-	14.2	11.5	63	1.2	10.4	39.9	20	0.1
Lab024	2	11.6	-	0	-	-	-	20	-	11.6	11.1	58	1.2	10.8	25.9	20	1.5
Lab026	2	11.6	-	0	-	-	-	36	-	11.6	11.5	212	1.6	13.9	28.7	36	2.5
Lab027	2	12.3	-	0	-	-	-	20	-	12.3	11.8	151	1.6	13.6	31.2	20	1.2
Lab028	2	13.2	12.8	12	1.3	10.2	23.3	20	1.7	13.2	13.6	325	1.2	8.8	20.7	20	1.9
Lab031	2	12.8	-	0	-	-	-	20	-	12.8	10.4	89	1.5	14.4	47.6	20	0.1
Lab032	2	12.3	-	0	-	-	-	20	-	12.3	11.5	222	1.9	16.5	39.5	20	0.8
Lab033	2	11.6	12.2	4	1.2	9.8	24.8	20	1.5	11.6	12.0	147	1.0	8.3	20.1	20	2.0
Lab034	2	12.8	11.9	4	0.8	6.7	20.5	20	1.9	12.8	12.3	86	0.7	5.7	15.3	20	2.8
Lab035	2	12.8	-	0	-	-	-	20	-	12.8	12.4	55	0.7	5.6	14.4	20	3.0
Lab037	2	12.6	11.5	4	0.3	2.6	13.9	20	4.3	12.6	12.2	61	1.2	9.8	22.8	20	1.7
Lab038	2	12.8	-	0	-	-	-	20	-	12.8	12.7	60	1.0	7.9	16.5	20	2.4
Lab040	2	12.8	12.6	1	-	-	-	20	-	12.8	12.1	21	0.5	4.1	13.7	20	3.5
Lab041	2	12.8	10.6	1	-	-	-	20	-	12.8	10.6	1	-	-	-	20	-
Total	-	-	12.2	26	1.2	9.8	-	-	-	-	12.1	1956	1.6	13.2	-	-	-

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

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

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

Month :

Cumulative : from to

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Control D Month vs. Cumulative

Control D (Lot No.: AC1203D)																	
Month (2017/02)										CUM (2014/02/01~2017/02/28)							
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	3.9	36	1.4	35.9	90.0	20	0.1
Lab018	2	2.5	-	0	-	-	-	20	-	2.5	2.6	113	0.9	34.6	73.2	20	0.5
Lab019	2	2.8	-	0	-	-	-	20	-	2.8	2.8	153	0.4	14.3	28.6	20	1.4
Lab020	2	2.9	-	0	-	-	-	20	-	2.9	2.7	15	0.5	18.5	43.9	20	0.7
Lab021	2	2.8	-	0	-	-	-	20	-	2.8	3.2	88	0.3	9.4	33.0	20	0.6
Lab022	2	3.3	-	0	-	-	-	20	-	3.3	2.9	63	0.3	10.3	32.8	20	0.8
Lab024	2	2.7	-	0	-	-	-	20	-	2.7	2.7	58	0.3	11.1	22.2	20	1.8
Lab026	2	2.7	-	0	-	-	-	36	-	2.7	2.8	212	0.5	17.9	39.4	36	1.8
Lab027	2	2.9	-	0	-	-	-	20	-	2.9	2.7	151	0.5	18.5	43.9	20	0.7
Lab028	2	3.2	3.0	12	0.3	10.0	26.3	20	1.4	3.2	3.3	325	0.5	15.2	33.4	20	1.1
Lab031	2	2.9	-	0	-	-	-	20	-	2.9	2.5	89	0.5	20.0	53.8	20	0.3
Lab032	2	2.9	-	0	-	-	-	20	-	2.9	2.7	222	0.5	18.5	43.9	20	0.7
Lab033	2	2.8	3.0	4	0.2	6.7	20.5	20	1.9	2.8	2.9	147	0.3	10.3	24.3	20	1.6
Lab034	2	2.9	2.8	4	0.4	14.3	32.0	20	1.2	2.9	2.9	86	0.3	10.3	20.7	20	1.9
Lab035	2	2.9	-	0	-	-	-	20	-	2.9	2.8	55	0.3	10.7	24.9	20	1.5
Lab037	2	3.0	2.7	4	0.1	3.7	17.4	20	2.7	3.0	2.9	61	0.4	13.8	30.9	20	1.2
Lab038	2	2.9	-	0	-	-	-	20	-	2.9	3.2	60	0.5	15.6	41.6	20	0.6
Lab040	2	2.9	2.8	1	-	-	-	20	-	2.9	2.6	21	0.3	11.5	33.4	20	0.8
Lab041	2	2.9	2.6	1	-	-	-	20	-	2.9	2.6	1	-	-	-	20	-
Total	-	-	2.9	26	0.3	10.3	-	-	-	-	2.9	1956	0.6	20.7	-	-	-

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

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

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

Month :

Cumulative : from to

[TOP](#)

Reagent Kit	Reagent Code
AMP	2