

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

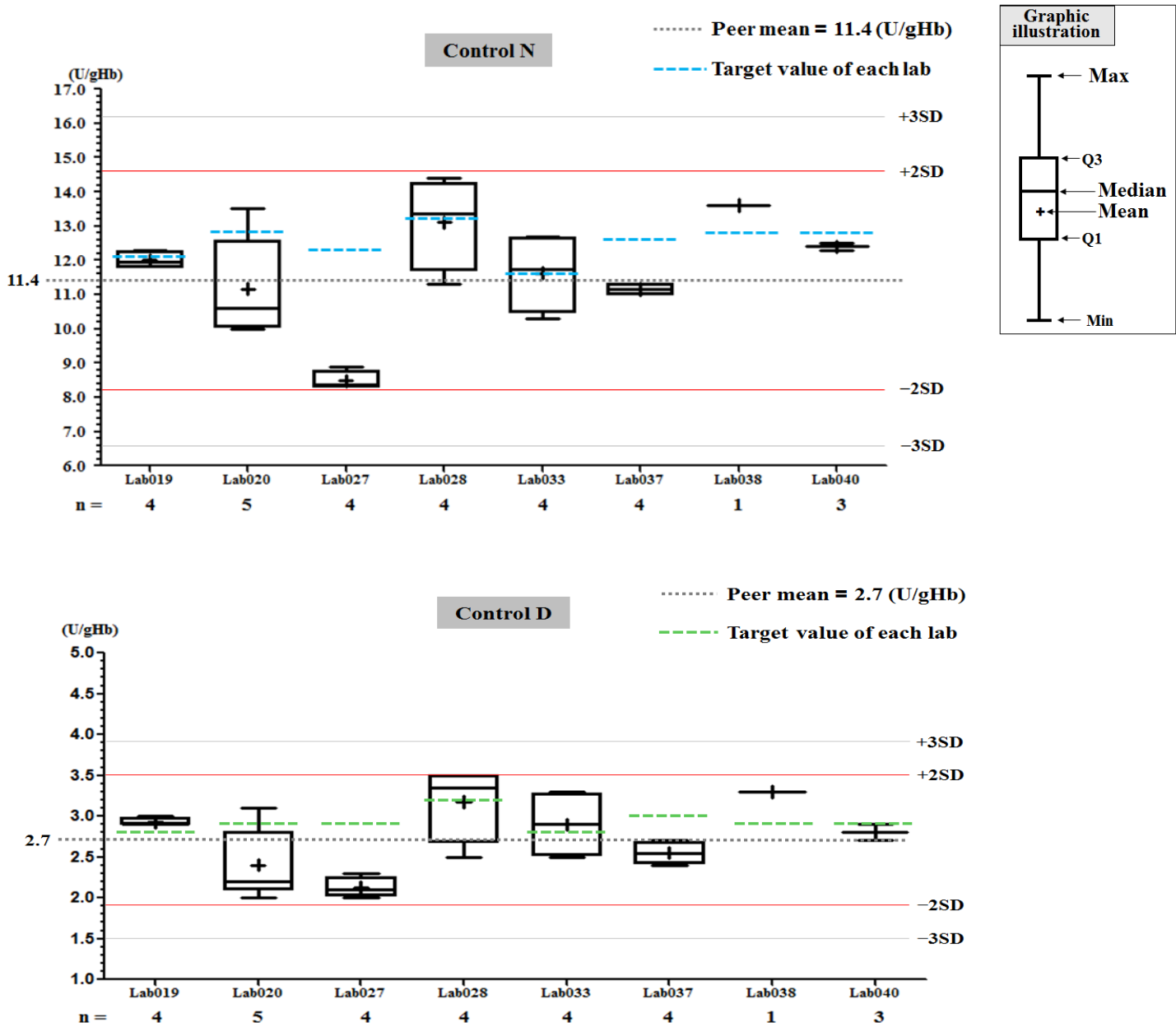
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:AC1203N)	Control D (Lot No.:AC1203D)
Labs	8	8
Received results number (n)	29	29
Median	11.6 (U/gHb)	2.7 (U/gHb)
Mean	11.4 (U/gHb)	2.7 (U/gHb)
SD	1.6	0.4
CV	14.0%	14.8%
Range of G6PD	8.3 ~ 14.4 (U/gHb)	2.0 ~ 3.5 (U/gHb)
Range of Hb	2.3 ~ 3.6 (g/dL)	2.8 ~ 4.3 (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](#)

## Lab028

QC Control Lot No.	Control N		Control D	
	AC1203N		AC1203D	
Duration of the Analyzing	Month (2017/01)	CUM (2016/09/10~2017/01/31)	Month (2017/01)	CUM (2016/09/10~2017/01/31)
Runs (N)	4	26	4	26
Mean (U/gHb)	13.1	13.0	3.2	3.2
SD	1.3	0.6	0.5	0.2
CV (%)	9.9	4.6	15.6	6.3
Target Value (U/gHb)	13.2	13.2	3.2	3.2
Total Error (%)	20.6	10.7	31.3	12.5
TEa (%)	20	20	20	20
$\sigma$	1.9	4.0	1.3	3.2

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

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

$\sigma$  (Sigma) = [TEa% - Bias (%) ] / CV (%)

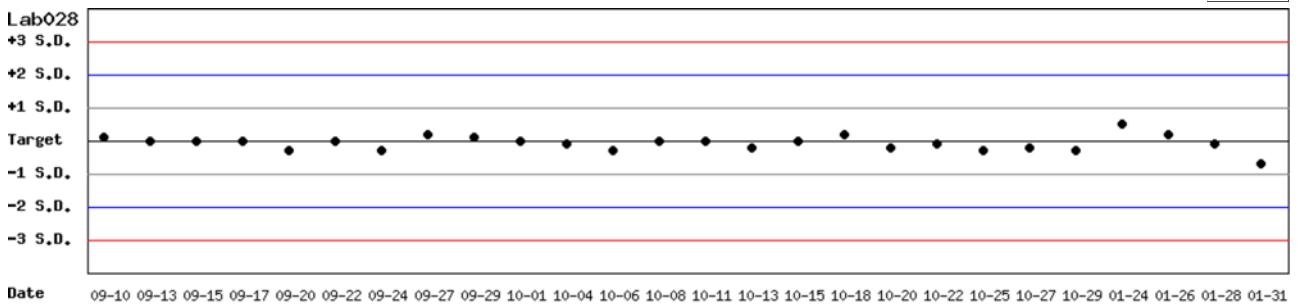
Month : 2017 01 [Change](#) ; Cumulative : from 2016 09 10 to 2017 01 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-09-10 to 2017-01-31 ; Target : 13.2 ; SD : 2.6

Lab028



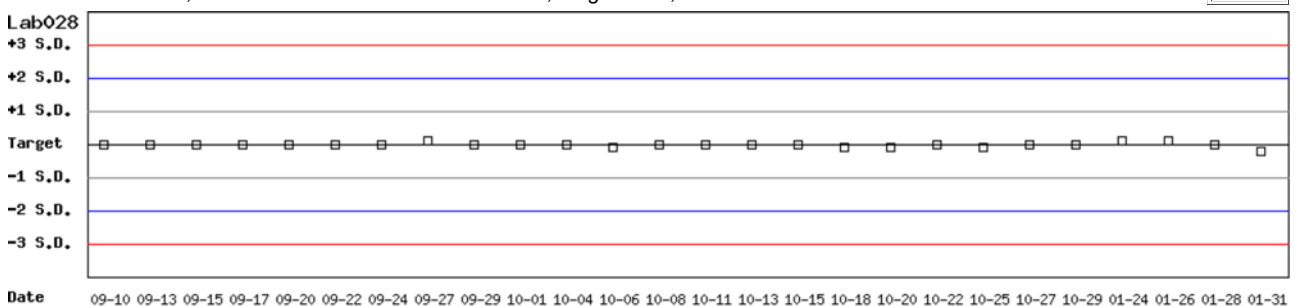
Month : 2017 01 [Change](#) ; Cumulative : from 2016 09 10 to 2017 01 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2016-09-10 to 2017-01-31 ; Target : 3.2 ; SD : 3.1

Lab028



Month : 2017 01 [Change](#) ; Cumulative : from 2016 09 10 to 2017 01 31 [Change](#)

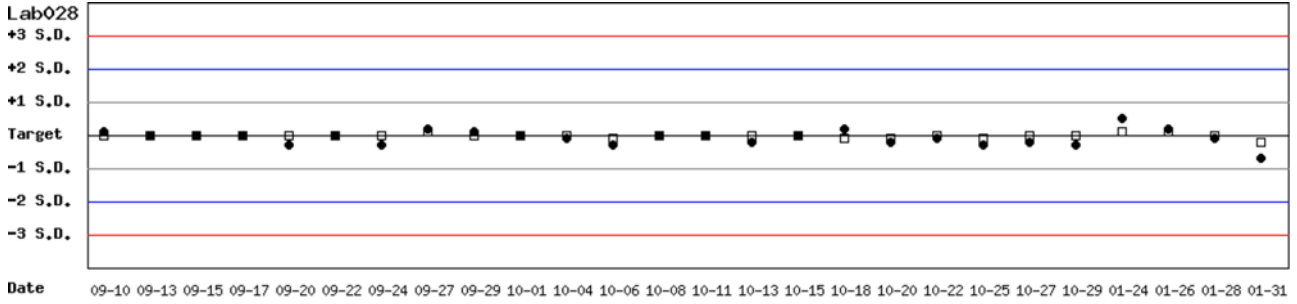
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-09-10 to 2017-01-31 ; Target : 13.2 ; SD : 2.6 (●)

Lot No.: AC1203D ; Duration : 2016-09-10 to 2017-01-31 ; Target : 3.2 ; SD : 3.1 (□)

Lab028



Month : 2017 01 Change ; Cumulative : from 2016 09 10 to 2017 01 31 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 01 Change

UnitID <sup>↑</sup>	Reagent Kit (Code) <sup>↑</sup>	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
<a href="#">Lab019</a>	2	12.1	12.0	4	0.2	1.7	4.2	20	>6	2.8	2.9	4	0.1	3.4	10.5	20	4.8
<a href="#">Lab020</a>	2	12.8	11.2	5	1.5	13.4	39.3	20	0.6	2.9	2.4	5	0.4	16.7	50.6	20	0.2
<a href="#">Lab027</a>	2	12.3	8.5	4	0.3	3.5	38.0	20	-3.1	2.9	2.1	4	0.1	4.8	37.1	20	-1.6
<a href="#">Lab028</a>	2	13.2	13.1	4	1.3	9.9	20.6	20	1.9	3.2	3.2	4	0.5	15.6	31.3	20	1.3
<a href="#">Lab033</a>	2	11.6	11.6	4	1.2	10.3	20.7	20	1.9	2.8	2.9	4	0.4	13.8	31.2	20	1.2
<a href="#">Lab037</a>	2	12.6	11.2	4	0.2	1.8	14.7	20	4.9	3.0	2.6	4	0.1	3.8	21.0	20	1.8
<a href="#">Lab038</a>	2	12.8	13.6	1	-	-	-	20	-	2.9	3.3	1	-	-	-	20	-
<a href="#">Lab040</a>	2	12.8	12.4	3	0.1	0.8	4.7	20	>6	2.9	2.8	3	0.1	3.6	10.6	20	4.6
Total	-	-	11.4	29	1.6	14.0	-	-	-	-	2.7	29	0.4	14.8	-	-	-

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 2017 01 31 Change

UnitID <sup>↑</sup>	Reagent Kit (Code) <sup>↑</sup>	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
<a href="#">Lab017</a>	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
<a href="#">Lab018</a>	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
<a href="#">Lab019</a>	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
<a href="#">Lab020</a>	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
<a href="#">Lab021</a>	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
<a href="#">Lab022</a>	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
<a href="#">Lab024</a>	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
<a href="#">Lab026</a>	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
<a href="#">Lab027</a>	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
<a href="#">Lab028</a>	2	13.2	13.6	313	1.2	8.8	20.7	20	1.9	3.2	3.3	313	0.5	15.2	33.4	20	1.1
<a href="#">Lab031</a>	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
<a href="#">Lab032</a>	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
<a href="#">Lab033</a>	2	11.6	12.0	143	1.0	8.3	20.1	20	2.0	2.8	2.9	143	0.3	10.3	24.3	20	1.6
<a href="#">Lab034</a>	2	12.8	12.3	82	0.7	5.7	15.3	20	2.8	2.9	3.0	82	0.3	10.0	23.4	20	1.7
<a href="#">Lab035</a>	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
<a href="#">Lab037</a>	2	12.6	12.3	57	1.2	9.8	21.9	20	1.8	3.0	2.9	57	0.4	13.8	30.9	20	1.2
<a href="#">Lab038</a>	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
<a href="#">Lab040</a>	2	12.8	12.1	20	0.5	4.1	13.7	20	3.5	2.9	2.6	20	0.3	11.5	33.4	20	0.8
Total	-	-	12.1	1930	1.6	13.2	-	-	-	-	2.9	1930	0.6	20.7	-	-	-

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

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

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

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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 (2017/01)								CUM (2014/02/01~2017/01/31)							
UnitID <sup>⬇</sup>	Reagent Kit (Code) <sup>⬇</sup>	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
<a href="#">Lab017</a>	2	14.2	-	0	-	-	-	20	-	14.2	13.8	36	1.6	11.6	26.0	20	1.5
<a href="#">Lab018</a>	2	10.9	-	0	-	-	-	20	-	10.9	10.9	113	1.3	11.9	23.9	20	1.7
<a href="#">Lab019</a>	2	12.1	12.0	4	0.2	1.7	4.2	20	>6	12.1	12.2	153	1.1	9.0	18.9	20	2.1
<a href="#">Lab020</a>	2	12.8	11.2	5	1.5	13.4	39.3	20	0.6	12.8	11.7	15	1.4	12.0	32.5	20	1.0
<a href="#">Lab021</a>	2	12.3	-	0	-	-	-	20	-	12.3	13.5	88	1.0	7.4	24.6	20	1.4
<a href="#">Lab022</a>	2	14.2	-	0	-	-	-	20	-	14.2	11.5	63	1.2	10.4	39.9	20	0.1
<a href="#">Lab024</a>	2	11.6	-	0	-	-	-	20	-	11.6	11.1	58	1.2	10.8	25.9	20	1.5
<a href="#">Lab026</a>	2	11.6	-	0	-	-	-	36	-	11.6	11.5	212	1.6	13.9	28.7	36	2.5
<a href="#">Lab027</a>	2	12.3	8.5	4	0.3	3.5	38.0	20	-3.1	12.3	11.8	151	1.6	13.6	31.2	20	1.2
<a href="#">Lab028</a>	2	13.2	13.1	4	1.3	9.9	20.6	20	1.9	13.2	13.6	313	1.2	8.8	20.7	20	1.9
<a href="#">Lab031</a>	2	12.8	-	0	-	-	-	20	-	12.8	10.4	89	1.5	14.4	47.6	20	0.1
<a href="#">Lab032</a>	2	12.3	-	0	-	-	-	20	-	12.3	11.5	222	1.9	16.5	39.5	20	0.8
<a href="#">Lab033</a>	2	11.6	11.6	4	1.2	10.3	20.7	20	1.9	11.6	12.0	143	1.0	8.3	20.1	20	2.0
<a href="#">Lab034</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.3	82	0.7	5.7	15.3	20	2.8
<a href="#">Lab035</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.4	55	0.7	5.6	14.4	20	3.0
<a href="#">Lab037</a>	2	12.6	11.2	4	0.2	1.8	14.7	20	4.9	12.6	12.3	57	1.2	9.8	21.9	20	1.8
<a href="#">Lab038</a>	2	12.8	13.6	1	-	-	-	20	-	12.8	12.7	60	1.0	7.9	16.5	20	2.4
<a href="#">Lab040</a>	2	12.8	12.4	3	0.1	0.8	4.7	20	>6	12.8	12.1	20	0.5	4.1	13.7	20	3.5
Total	-	-	11.4	29	1.6	14.0	-	-	-	-	12.1	1930	1.6	13.2	-	-	-

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

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

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

Month : 2017 01 Change

Cumulative : from 2014 02 01 to 2017 01 31 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2017/01)								CUM (2014/02/01~2017/01/31)							
UnitID <sup>⬇</sup>	Reagent Kit (Code) <sup>⬇</sup>	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
<a href="#">Lab017</a>	2	3.3	-	0	-	-	-	20	-	3.3	3.9	36	1.4	35.9	90.0	20	0.1
<a href="#">Lab018</a>	2	2.5	-	0	-	-	-	20	-	2.5	2.6	113	0.9	34.6	73.2	20	0.5
<a href="#">Lab019</a>	2	2.8	2.9	4	0.1	3.4	10.5	20	4.8	2.8	2.8	153	0.4	14.3	28.6	20	1.4
<a href="#">Lab020</a>	2	2.9	2.4	5	0.4	16.7	50.6	20	0.2	2.9	2.7	15	0.5	18.5	43.9	20	0.7
<a href="#">Lab021</a>	2	2.8	-	0	-	-	-	20	-	2.8	3.2	88	0.3	9.4	33.0	20	0.6
<a href="#">Lab022</a>	2	3.3	-	0	-	-	-	20	-	3.3	2.9	63	0.3	10.3	32.8	20	0.8
<a href="#">Lab024</a>	2	2.7	-	0	-	-	-	20	-	2.7	2.7	58	0.3	11.1	22.2	20	1.8
<a href="#">Lab026</a>	2	2.7	-	0	-	-	-	36	-	2.7	2.8	212	0.5	17.9	39.4	36	1.8
<a href="#">Lab027</a>	2	2.9	2.1	4	0.1	4.8	37.1	20	-1.6	2.9	2.7	151	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	3.2	3.2	4	0.5	15.6	31.3	20	1.3	3.2	3.3	313	0.5	15.2	33.4	20	1.1
<a href="#">Lab031</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.5	89	0.5	20.0	53.8	20	0.3
<a href="#">Lab032</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.7	222	0.5	18.5	43.9	20	0.7
<a href="#">Lab033</a>	2	2.8	2.9	4	0.4	13.8	31.2	20	1.2	2.8	2.9	143	0.3	10.3	24.3	20	1.6
<a href="#">Lab034</a>	2	2.9	-	0	-	-	-	20	-	2.9	3.0	82	0.3	10.0	23.4	20	1.7
<a href="#">Lab035</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.8	55	0.3	10.7	24.9	20	1.5
<a href="#">Lab037</a>	2	3.0	2.6	4	0.1	3.8	21.0	20	1.8	3.0	2.9	57	0.4	13.8	30.9	20	1.2
<a href="#">Lab038</a>	2	2.9	3.3	1	-	-	-	20	-	2.9	3.2	60	0.5	15.6	41.6	20	0.6
<a href="#">Lab040</a>	2	2.9	2.8	3	0.1	3.6	10.6	20	4.6	2.9	2.6	20	0.3	11.5	33.4	20	0.8
Total	-	-	2.7	29	0.4	14.8	-	-	-	-	2.9	1930	0.6	20.7	-	-	-

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

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

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

Month : 2017 01 Change

Cumulative : from 2014 02 01 to 2017 01 31 Change

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Reagent Kit	Reagent Code
AMP	2