

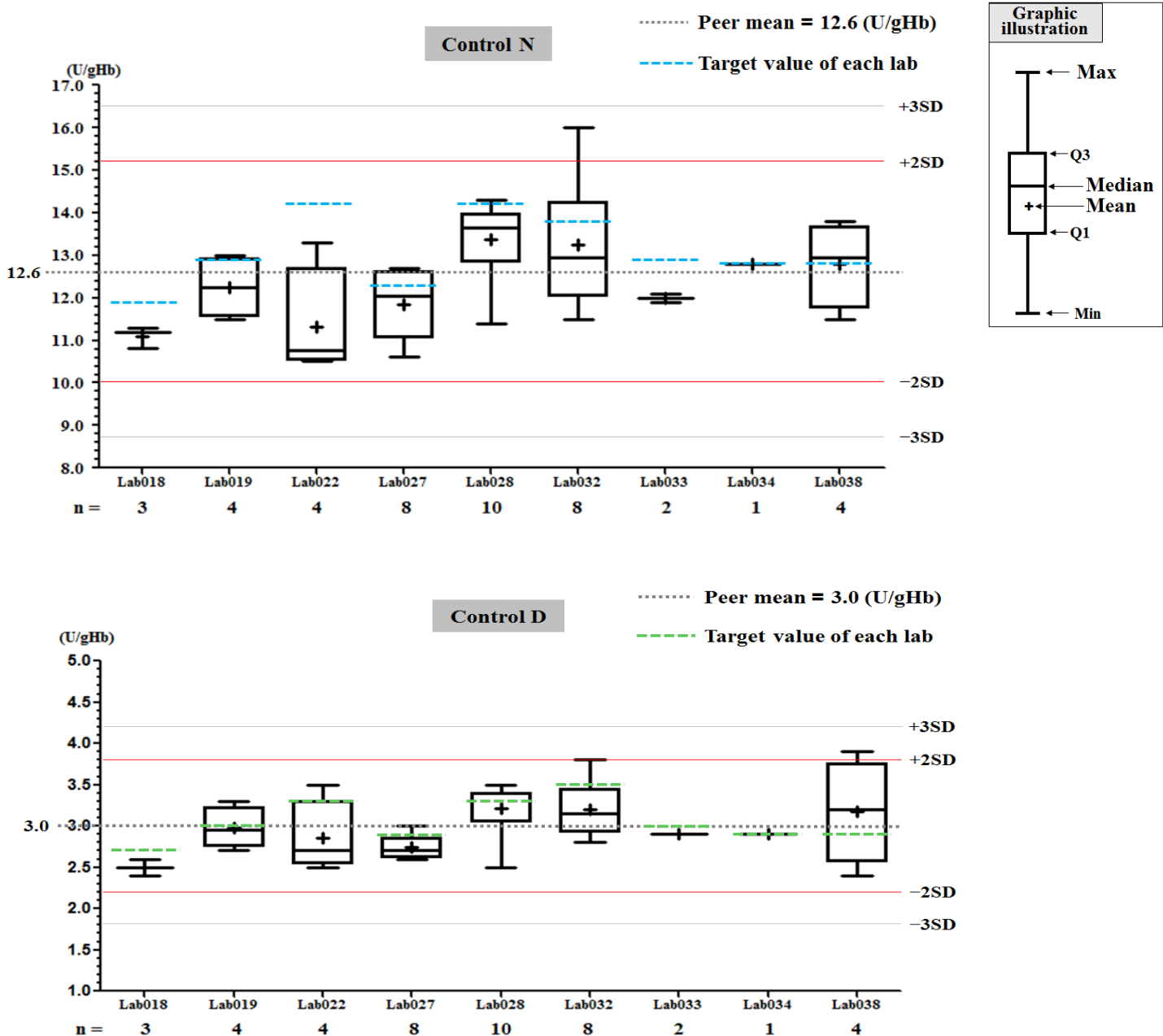
# Summary Report of IQC program for G6PD Quantitative Test - AMP Group - February 2016 -

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

G6PD	Control N (Lot No.:AC1203N)	Control D (Lot No.:AC1203D)
Labs	9	9
Received results number (n)	44	44
Median	12.7 (U/gHb)	2.9 (U/gHb)
Mean	12.5 (U/gHb)	3.0 (U/gHb)
SD	1.2	0.4
CV	9.6%	13.3%
Range of G6PD	10.5 ~ 16.0 (U/gHb)	2.4 ~ 3.9 (U/gHb)
Range of Hb	2.3 ~ 2.9 (g/dL)	2.5 ~ 3.5 (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)

## Lab028

	Control N		Control D	
QC Control Lot No.	AC1203N		AC1203D	
Duration of the Analyzing	Month (2016/02)	CUM (2015/12/15~2016/02/29)	Month (2016/02)	CUM (2015/12/15~2016/02/29)
Runs (N)	10	26	10	26
Mean (U/gHb)	13.4	13.9	3.2	3.4
SD	0.9	0.8	0.4	0.3
CV (%)	6.7	5.8	12.5	8.8
Target Value (U/gHb)	14.2	14.2	3.3	3.3
Total Error (%)	19.1	13.6	28.0	20.7
TEa (%)	20	20	20	20
$\sigma$	2.1	3.1	1.4	1.9

Bias (%) = [ ( | Mean - Target | ) / Target ] x 100%  
 TE : Total Error(%) = Bias (%) + 2 x CV (%)  
 $\sigma$  (Sigma) = [TEa% - Bias (%) ] / CV (%)

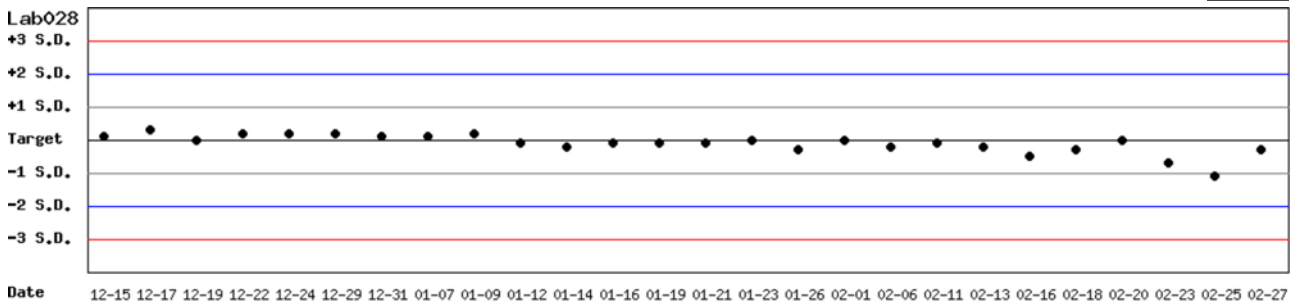
Month : 2016 02  ; Cumulative : from 2015 12 15 to 2016 02 29

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-12-15 to 2016-02-29 ; Target : 14.2 ; SD : 2.6

Lab028



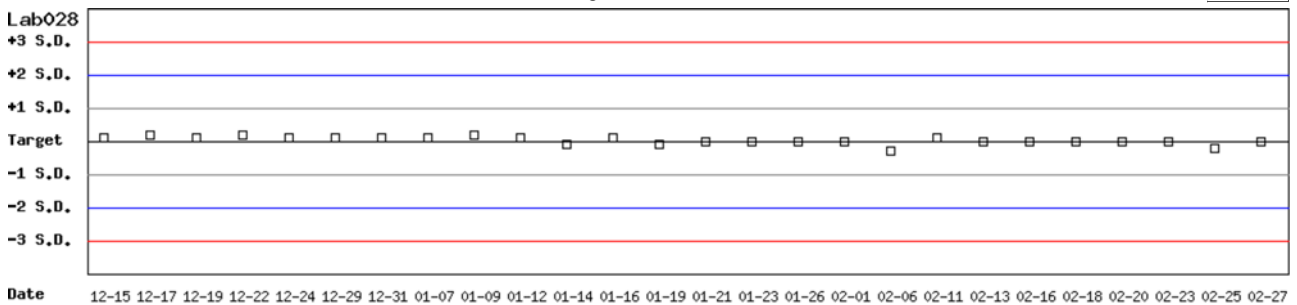
Month : 2016 02  ; Cumulative : from 2015 12 15 to 2016 02 29

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2015-12-15 to 2016-02-29 ; Target : 3.3 ; SD : 3.1

Lab028



Month : 2016 02  ; Cumulative : from 2015 12 15 to 2016 02 29

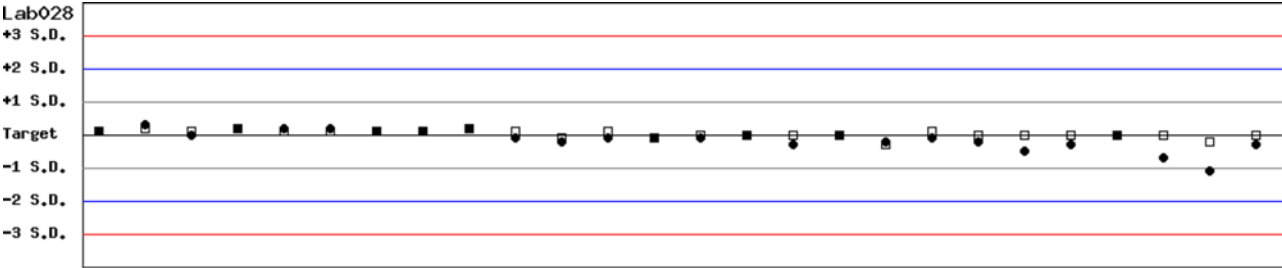
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-12-15 to 2016-02-29 ; Target : 14.2 ; SD : 2.6 ( ● )

Lot No.: AC1203D ; Duration : 2015-12-15 to 2016-02-29 ; Target : 3.3 ; SD : 3.1 ( □ )

Lab028



Date 12-15 12-17 12-19 12-22 12-24 12-29 12-31 01-07 01-09 01-12 01-14 01-16 01-19 01-21 01-23 01-26 02-01 02-06 02-11 02-13 02-16 02-18 02-20 02-23 02-25 02-27

Month : 2016 02  ; Cumulative : from 2015 12 15 to 2016 02 29

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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 : 2016 ▼ 02 ▼ 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
<a href="#">Lab018</a>	2	11.9	11.1	3	0.3	2.7	12.1	20	4.9	2.7	2.5	3	0.1	4.0	15.4	20	3.1
<a href="#">Lab019</a>	2	12.9	12.3	4	0.7	5.7	16.0	20	2.7	3.0	3.0	4	0.3	10.0	20.0	20	2.0
<a href="#">Lab022</a>	2	14.2	11.3	4	1.3	11.5	43.4	20	0.0	3.3	2.9	4	0.4	13.8	39.7	20	0.6
<a href="#">Lab027</a>	2	12.3	11.9	8	0.8	6.7	16.7	20	2.5	2.9	2.7	8	0.1	3.7	14.3	20	3.5
<a href="#">Lab028</a>	2	14.2	13.4	10	0.9	6.7	19.1	20	2.1	3.3	3.2	10	0.4	12.5	28.0	20	1.4
<a href="#">Lab032</a>	2	13.8	13.3	8	1.5	11.3	26.2	20	1.4	3.5	3.2	8	0.3	9.4	27.3	20	1.2
<a href="#">Lab033</a>	2	12.9	12.0	2	-	-	-	20	-	3.0	2.9	2	-	-	-	20	-
<a href="#">Lab034</a>	2	12.8	12.8	1	-	-	-	20	-	2.9	2.9	1	-	-	-	20	-
<a href="#">Lab038</a>	2	12.8	12.8	4	1.0	7.8	15.6	20	2.6	2.9	3.2	4	0.6	18.8	47.8	20	0.5
<b>Total</b>	-	-	12.5	44	1.2	9.6	-	-	-	-	3.0	44	0.4	13.3	-	-	-

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 2016 ▼ 02 ▼ 29 ▼ 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
<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	11.9	10.8	75	1.6	14.8	38.9	20	0.7	2.7	2.6	75	1.1	42.3	88.3	20	0.4
<a href="#">Lab019</a>	2	12.9	12.1	104	1.2	9.9	26.0	20	1.4	3.0	2.8	104	0.4	14.3	35.2	20	0.9
<a href="#">Lab021</a>	2	14.2	14.2	54	0.2	1.4	2.8	20	>6	3.3	3.4	54	0.1	2.9	8.9	20	5.9
<a href="#">Lab022</a>	2	14.2	11.9	22	1.1	9.2	34.7	20	0.4	3.3	3.1	22	0.4	12.9	31.9	20	1.1
<a href="#">Lab024</a>	2	11.6	11.1	49	1.2	10.8	25.9	20	1.5	2.7	2.7	49	0.4	14.8	29.6	20	1.4
<a href="#">Lab026</a>	2	11.6	11.5	211	1.6	13.9	28.7	36	2.5	2.7	2.8	211	0.5	17.9	39.4	36	1.8
<a href="#">Lab027</a>	2	12.3	11.8	121	1.6	13.6	31.2	20	1.2	2.9	2.7	121	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	14.2	13.9	201	1.2	8.6	19.4	20	2.1	3.3	3.4	201	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	12.8	10.1	63	1.4	13.9	48.8	20	-0.1	2.9	2.4	63	0.4	16.7	50.6	20	0.2
<a href="#">Lab032</a>	2	13.8	11.3	175	2.0	17.7	53.5	20	0.1	3.5	2.6	175	0.5	19.2	64.2	20	-0.3
<a href="#">Lab033</a>	2	12.9	12.2	100	1.0	8.2	21.8	20	1.8	3.0	2.9	100	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	12.8	12.6	47	0.5	4.0	9.5	20	4.6	2.9	3.0	47	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	12.8	12.6	37	0.7	5.6	12.7	20	3.3	2.9	2.9	37	0.3	10.3	20.7	20	1.9
<a href="#">Lab037</a>	2	12.8	12.5	9	1.0	8.0	18.3	20	2.2	2.9	3.1	9	0.3	9.7	26.3	20	1.4
<a href="#">Lab038</a>	2	12.8	12.7	37	1.2	9.4	19.7	20	2.0	2.9	3.2	37	0.5	15.6	41.6	20	0.6
<b>Total</b>	-	-	12.1	1341	1.8	14.9	-	-	-	-	2.9	1341	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 :

Select Reagent Kit :

### Control N Month vs. Cumulative

		Control N (Lot No.: AC1203N)															
		Month (2016/02)								CUM (2014/02/01~2016/02/29)							
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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	11.9	11.1	3	0.3	2.7	12.1	20	4.9	11.9	10.8	75	1.6	14.8	38.9	20	0.7
<a href="#">Lab019</a>	2	12.9	12.3	4	0.7	5.7	16.0	20	2.7	12.9	12.1	104	1.2	9.9	26.0	20	1.4
<a href="#">Lab021</a>	2	14.2	-	0	-	-	-	20	-	14.2	14.2	54	0.2	1.4	2.8	20	>6
<a href="#">Lab022</a>	2	14.2	11.3	4	1.3	11.5	43.4	20	0.0	14.2	11.9	22	1.1	9.2	34.7	20	0.4
<a href="#">Lab024</a>	2	11.6	-	0	-	-	-	20	-	11.6	11.1	49	1.2	10.8	25.9	20	1.5
<a href="#">Lab026</a>	2	11.6	-	0	-	-	-	36	-	11.6	11.5	211	1.6	13.9	28.7	36	2.5
<a href="#">Lab027</a>	2	12.3	11.9	8	0.8	6.7	16.7	20	2.5	12.3	11.8	121	1.6	13.6	31.2	20	1.2
<a href="#">Lab028</a>	2	14.2	13.4	10	0.9	6.7	19.1	20	2.1	14.2	13.9	201	1.2	8.6	19.4	20	2.1
<a href="#">Lab031</a>	2	12.8	-	0	-	-	-	20	-	12.8	10.1	63	1.4	13.9	48.8	20	-0.1
<a href="#">Lab032</a>	2	13.8	13.3	8	1.5	11.3	26.2	20	1.4	13.8	11.3	175	2.0	17.7	53.5	20	0.1
<a href="#">Lab033</a>	2	12.9	12.0	2	-	-	-	20	-	12.9	12.2	100	1.0	8.2	21.8	20	1.8
<a href="#">Lab034</a>	2	12.8	12.8	1	-	-	-	20	-	12.8	12.6	47	0.5	4.0	9.5	20	4.6
<a href="#">Lab035</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.6	37	0.7	5.6	12.7	20	3.3
<a href="#">Lab037</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.5	9	1.0	8.0	18.3	20	2.2
<a href="#">Lab038</a>	2	12.8	12.8	4	1.0	7.8	15.6	20	2.6	12.8	12.7	37	1.2	9.4	19.7	20	2.0
<b>Total</b>	-	-	12.5	44	1.2	9.6	-	-	-	-	12.1	1341	1.8	14.9	-	-	-

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

TE : Total Error(%) = Bias (%) + 2 x 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 (2016/02)								CUM (2014/02/01~2016/02/29)							
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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	2.7	2.5	3	0.1	4.0	15.4	20	3.1	2.7	2.6	75	1.1	42.3	88.3	20	0.4
<a href="#">Lab019</a>	2	3.0	3.0	4	0.3	10.0	20.0	20	2.0	3.0	2.8	104	0.4	14.3	35.2	20	0.9
<a href="#">Lab021</a>	2	3.3	-	0	-	-	-	20	-	3.3	3.4	54	0.1	2.9	8.9	20	5.9
<a href="#">Lab022</a>	2	3.3	2.9	4	0.4	13.8	39.7	20	0.6	3.3	3.1	22	0.4	12.9	31.9	20	1.1
<a href="#">Lab024</a>	2	2.7	-	0	-	-	-	20	-	2.7	2.7	49	0.4	14.8	29.6	20	1.4
<a href="#">Lab026</a>	2	2.7	-	0	-	-	-	36	-	2.7	2.8	211	0.5	17.9	39.4	36	1.8
<a href="#">Lab027</a>	2	2.9	2.7	8	0.1	3.7	14.3	20	3.5	2.9	2.7	121	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	3.3	3.2	10	0.4	12.5	28.0	20	1.4	3.3	3.4	201	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.4	63	0.4	16.7	50.6	20	0.2
<a href="#">Lab032</a>	2	3.5	3.2	8	0.3	9.4	27.3	20	1.2	3.5	2.6	175	0.5	19.2	64.2	20	-0.3
<a href="#">Lab033</a>	2	3.0	2.9	2	-	-	-	20	-	3.0	2.9	100	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	2.9	2.9	1	-	-	-	20	-	2.9	3.0	47	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.9	37	0.3	10.3	20.7	20	1.9
<a href="#">Lab037</a>	2	2.9	-	0	-	-	-	20	-	2.9	3.1	9	0.3	9.7	26.3	20	1.4
<a href="#">Lab038</a>	2	2.9	3.2	4	0.6	18.8	47.8	20	0.5	2.9	3.2	37	0.5	15.6	41.6	20	0.6
<b>Total</b>	-	-	3.0	44	0.4	13.3	-	-	-	-	2.9	1341	0.6	20.7	-	-	-

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

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

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

Month :

Cumulative : from    to

[TOP](#)

Reagent Kit	Reagent Code
AMP	2