

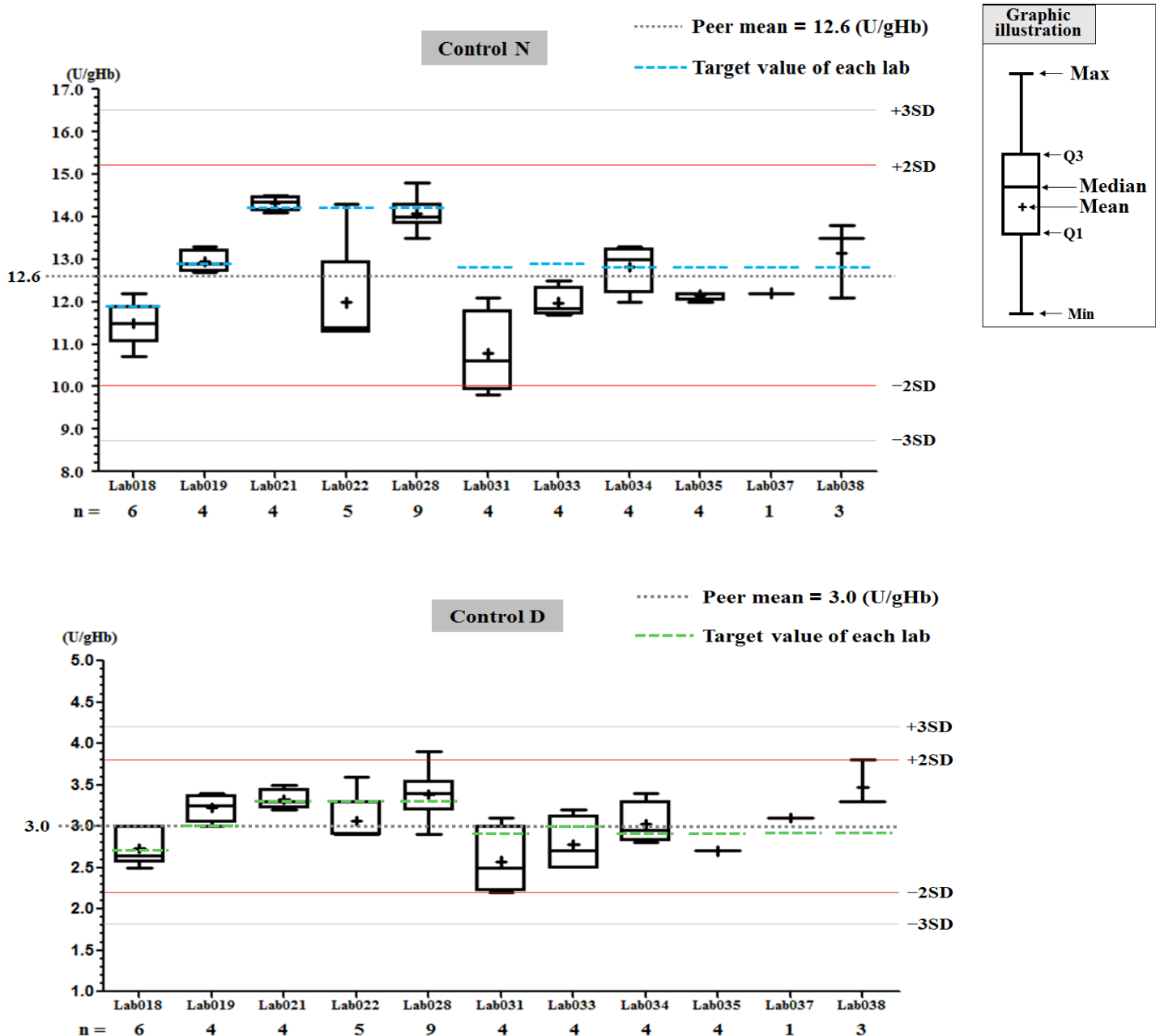
# Summary Report of IQC program for G6PD Quantitative Test - AMP Group - January 2016 -

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

G6PD	Control N (Lot No.:AC1203N)	Control D (Lot No.:AC1203D)
Labs	11	11
Received results number (n)	48	48
Median	12.4 (U/gHb)	3.0 (U/gHb)
Mean	12.6 (U/gHb)	3.0 (U/gHb)
SD	1.3	0.4
CV	10.3%	13.3%
Range of G6PD	9.8 ~ 14.8 (U/gHb)	2.2 ~ 3.9 (U/gHb)
Range of Hb	2.1 ~ 2.6 (g/dL)	2.2 ~ 3.1 (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](#)

## Lab033

QC Control Lot No.	Control N		Control D	
	AC1203N		AC1203D	
Duration of the Analyzing	Month (2016/01)	CUM (2015/08/13~2016/01/31)	Month (2016/01)	CUM (2015/08/13~2016/01/31)
Runs (N)	4	26	4	26
Mean (U/gHb)	12.0	12.5	2.8	2.9
SD	0.4	0.6	0.3	0.4
CV (%)	3.3	4.8	10.7	13.8
Target Value (U/gHb)	12.9	12.9	3.0	3.0
Total Error (%)	13.6	12.7	28.1	30.9
TEa (%)	20	20	20	20
$\sigma$	3.9	3.5	1.2	1.2

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

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

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

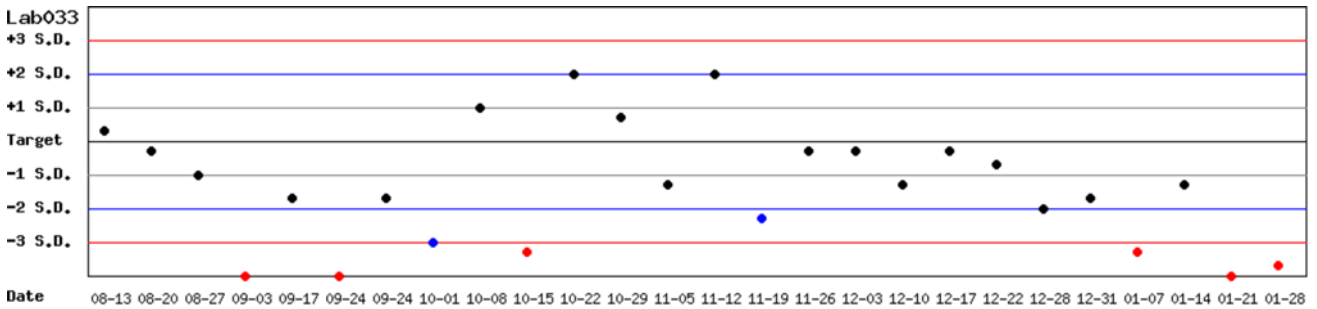
Month : 2016 01 [Change](#) ; Cumulative : from 2015 08 13 to 2016 01 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-08-13 to 2016-01-31 ; Target : 12.9 ; SD : 0.30

Lab033



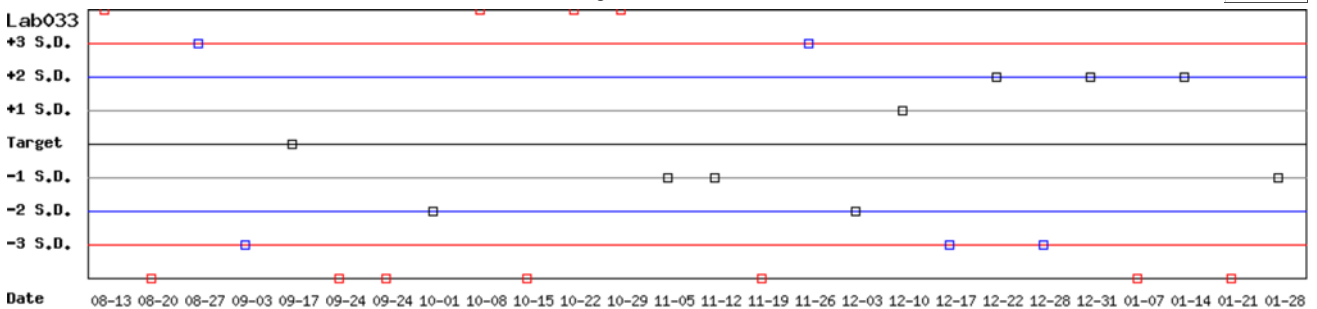
Month : 2016 01 [Change](#) ; Cumulative : from 2015 08 13 to 2016 01 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2015-08-13 to 2016-01-31 ; Target : 3.0 ; SD : 0.10

Lab033



Month : 2016 01 [Change](#) ; Cumulative : from 2015 08 13 to 2016 01 31 [Change](#)

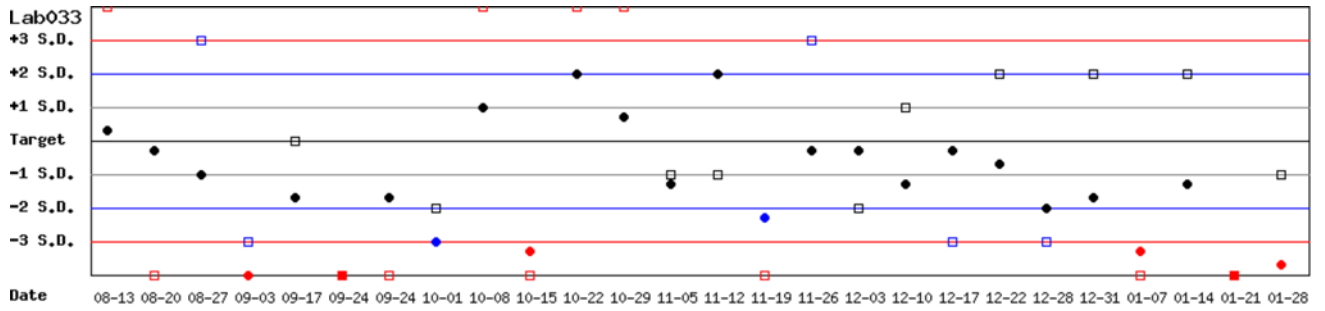
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-08-13 to 2016-01-31 ; Target : 12.9 ; SD : 0.30 ( ● )

Lot No.: AC1203D ; Duration : 2015-08-13 to 2016-01-31 ; Target : 3.0 ; SD : 0.10 ( □ )

Lab033



Month : 2016 01  ; Cumulative : from 2015 08 13 to 2016 01 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 : 2016 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="#">Lab018</a>	2	11.9	11.5	6	0.5	4.3	12.1	20	3.9	2.7	2.7	6	0.2	7.4	14.8	20	2.7
<a href="#">Lab019</a>	2	12.9	13.0	4	0.3	2.3	5.4	20	>6	3.0	3.2	4	0.2	6.3	19.2	20	2.1
<a href="#">Lab021</a>	2	14.2	14.3	4	0.2	1.4	3.5	20	>6	3.3	3.3	4	0.1	3.0	6.1	20	>6
<a href="#">Lab022</a>	2	14.2	12.0	5	1.3	10.8	37.2	20	0.4	3.3	3.1	5	0.3	9.7	25.4	20	1.4
<a href="#">Lab028</a>	2	14.2	14.1	9	0.4	2.8	6.4	20	>6	3.3	3.4	9	0.3	8.8	20.7	20	1.9
<a href="#">Lab031</a>	2	12.8	10.8	4	1.0	9.3	34.1	20	0.5	2.9	2.6	4	0.4	15.4	41.1	20	0.6
<a href="#">Lab033</a>	2	12.9	12.0	4	0.4	3.3	13.6	20	3.9	3.0	2.8	4	0.3	10.7	28.1	20	1.2
<a href="#">Lab034</a>	2	12.8	12.8	4	0.6	4.7	9.4	20	4.3	2.9	3.0	4	0.3	10.0	23.4	20	1.7
<a href="#">Lab035</a>	2	12.8	12.2	4	0.1	0.8	6.3	20	>6	2.9	2.7	4	0.0	0.0	6.9	20	>6
<a href="#">Lab037</a>	2	12.8	12.2	1	-	-	-	20	-	2.9	3.1	1	-	-	-	20	-
<a href="#">Lab038</a>	2	12.8	13.1	3	0.9	6.9	16.1	20	2.6	2.9	3.5	3	0.3	8.6	37.8	20	-0.1
Total	-	-	12.6	48	1.3	10.3	-	-	-	-	3.0	48	0.4	13.3	-	-	-

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

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

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

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### Cumulative

Cumulative : from 2014 02 01 to 2016 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	11.9	10.8	72	1.6	14.8	38.9	20	0.7	2.7	2.6	72	1.1	42.3	88.3	20	0.4
<a href="#">Lab019</a>	2	12.9	12.1	100	1.2	9.9	26.0	20	1.4	3.0	2.8	100	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	12.0	18	1.0	8.3	32.2	20	0.5	3.3	3.1	18	0.3	9.7	25.4	20	1.4
<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	113	1.7	14.4	32.9	20	1.1	2.9	2.7	113	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	14.2	13.9	191	1.3	9.4	20.8	20	1.9	3.3	3.4	191	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	11.2	167	1.9	17.0	52.8	20	0.1	3.5	2.6	167	0.5	19.2	64.2	20	-0.3
<a href="#">Lab033</a>	2	12.9	12.2	98	1.0	8.2	21.8	20	1.8	3.0	2.9	98	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	12.8	12.6	46	0.5	4.0	9.5	20	4.6	2.9	3.0	46	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	33	1.2	9.4	19.7	20	2.0	2.9	3.2	33	0.5	15.6	41.6	20	0.6
Total	-	-	12.1	1297	1.8	14.9	-	-	-	-	2.9	1297	0.7	24.1	-	-	-

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 (2016/01)								CUM (2014/02/01~2016/01/31)							
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	11.9	11.5	6	0.5	4.3	12.1	20	3.9	11.9	10.8	72	1.6	14.8	38.9	20	0.7
<a href="#">Lab019</a>	2	12.9	13.0	4	0.3	2.3	5.4	20	>6	12.9	12.1	100	1.2	9.9	26.0	20	1.4
<a href="#">Lab021</a>	2	14.2	14.3	4	0.2	1.4	3.5	20	>6	14.2	14.2	54	0.2	1.4	2.8	20	>6
<a href="#">Lab022</a>	2	14.2	12.0	5	1.3	10.8	37.2	20	0.4	14.2	12.0	18	1.0	8.3	32.2	20	0.5
<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	-	0	-	-	-	20	-	12.3	11.8	113	1.7	14.4	32.9	20	1.1
<a href="#">Lab028</a>	2	14.2	14.1	9	0.4	2.8	6.4	20	>6	14.2	13.9	191	1.3	9.4	20.8	20	1.9
<a href="#">Lab031</a>	2	12.8	10.8	4	1.0	9.3	34.1	20	0.5	12.8	10.1	63	1.4	13.9	48.8	20	-0.1
<a href="#">Lab032</a>	2	13.8	-	0	-	-	-	20	-	13.8	11.2	167	1.9	17.0	52.8	20	0.1
<a href="#">Lab033</a>	2	12.9	12.0	4	0.4	3.3	13.6	20	3.9	12.9	12.2	98	1.0	8.2	21.8	20	1.8
<a href="#">Lab034</a>	2	12.8	12.8	4	0.6	4.7	9.4	20	4.3	12.8	12.6	46	0.5	4.0	9.5	20	4.6
<a href="#">Lab035</a>	2	12.8	12.2	4	0.1	0.8	6.3	20	>6	12.8	12.6	37	0.7	5.6	12.7	20	3.3
<a href="#">Lab037</a>	2	12.8	12.2	1	-	-	-	20	-	12.8	12.5	9	1.0	8.0	18.3	20	2.2
<a href="#">Lab038</a>	2	12.8	13.1	3	0.9	6.9	16.1	20	2.6	12.8	12.7	33	1.2	9.4	19.7	20	2.0
Total	-	-	12.6	48	1.3	10.3	-	-	-	-	12.1	1297	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

[TOP](#)

### Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2016/01)								CUM (2014/02/01~2016/01/31)							
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	2.7	2.7	6	0.2	7.4	14.8	20	2.7	2.7	2.6	72	1.1	42.3	88.3	20	0.4
<a href="#">Lab019</a>	2	3.0	3.2	4	0.2	6.3	19.2	20	2.1	3.0	2.8	100	0.4	14.3	35.2	20	0.9
<a href="#">Lab021</a>	2	3.3	3.3	4	0.1	3.0	6.1	20	>6	3.3	3.4	54	0.1	2.9	8.9	20	5.9
<a href="#">Lab022</a>	2	3.3	3.1	5	0.3	9.7	25.4	20	1.4	3.3	3.1	18	0.3	9.7	25.4	20	1.4
<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	-	0	-	-	-	20	-	2.9	2.7	113	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	3.3	3.4	9	0.3	8.8	20.7	20	1.9	3.3	3.4	191	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	2.9	2.6	4	0.4	15.4	41.1	20	0.6	2.9	2.4	63	0.4	16.7	50.6	20	0.2
<a href="#">Lab032</a>	2	3.5	-	0	-	-	-	20	-	3.5	2.6	167	0.5	19.2	64.2	20	-0.3
<a href="#">Lab033</a>	2	3.0	2.8	4	0.3	10.7	28.1	20	1.2	3.0	2.9	98	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	2.9	3.0	4	0.3	10.0	23.4	20	1.7	2.9	3.0	46	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	2.9	2.7	4	0.0	0.0	6.9	20	>6	2.9	2.9	37	0.3	10.3	20.7	20	1.9
<a href="#">Lab037</a>	2	2.9	3.1	1	-	-	-	20	-	2.9	3.1	9	0.3	9.7	26.3	20	1.4
<a href="#">Lab038</a>	2	2.9	3.5	3	0.3	8.6	37.8	20	-0.1	2.9	3.2	33	0.5	15.6	41.6	20	0.6
Total	-	-	3.0	48	0.4	13.3	-	-	-	-	2.9	1297	0.7	24.1	-	-	-

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