

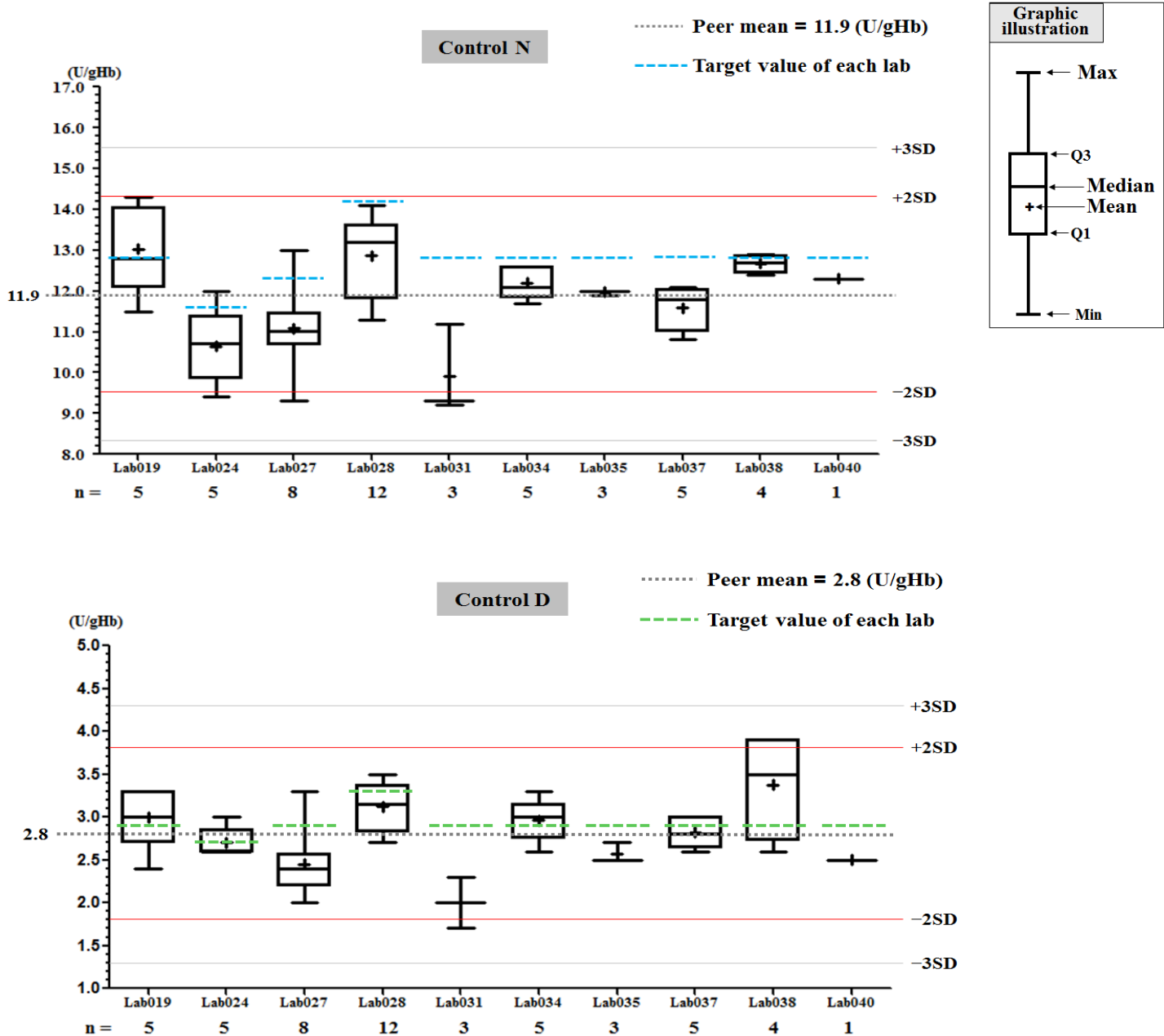
# Summary Report of IQC program for G6PD Quantitative Test - AMP Group - April 2016 -

## 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)	51	51
Median	12.0 (U/gHb)	2.8 (U/gHb)
Mean	11.9 (U/gHb)	2.8 (U/gHb)
SD	1.2	0.2
CV	10.1%	17.9%
Range of G6PD	9.2 ~ 14.3 (U/gHb)	1.7 ~ 3.9 (U/gHb)
Range of Hb	2.2 ~ 3.9 (g/dL)	1.3 ~ 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) [Change](#)

[Print Table](#)

## Lab035

QC Control Lot No.	Control N		Control D	
	AC1203N		AC1203D	
Duration of the Analyzing	Month (2016/04)	CUM (2015/07/17~2016/04/30)	Month (2016/04)	CUM (2015/07/17~2016/04/30)
Runs (N)	3	26	3	26
Mean (U/gHb)	12.0	12.3	2.6	2.7
SD	0.1	0.2	0.1	0.1
CV (%)	0.8	1.6	3.8	3.7
Target Value (U/gHb)	12.8	12.8	2.9	2.9
Total Error (%)	7.9	7.2	18.0	14.3
TEa (%)	20	20	20	20
$\sigma$	>6	>6	2.5	3.5

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

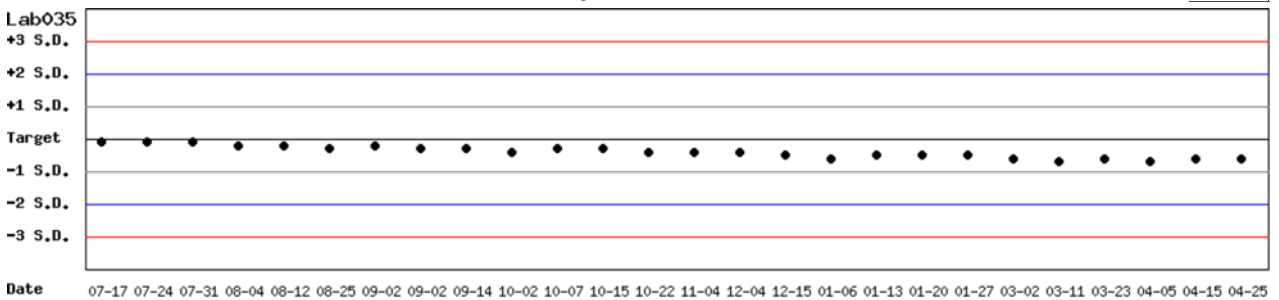
Month : 2016 04 [Change](#) ; Cumulative : from 2015 07 17 to 2016 04 30 [Change](#)

[TOP](#)

## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-07-17 to 2016-04-30 ; Target : 12.8 ; SD : 1.28

Lab035



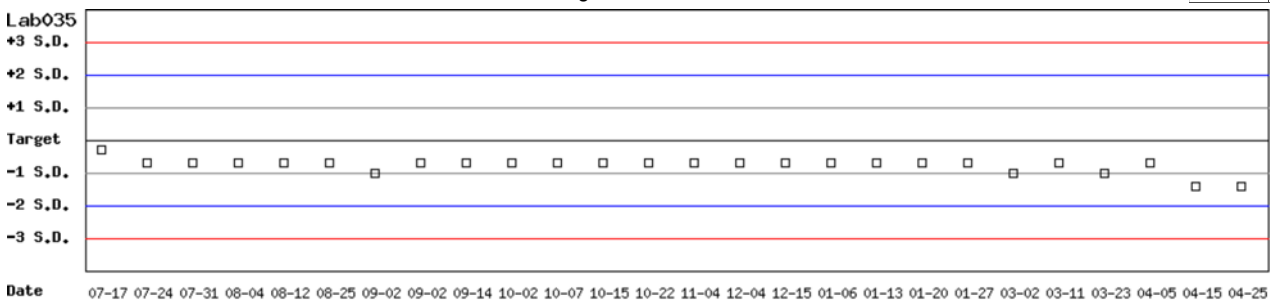
Month : 2016 04 [Change](#) ; Cumulative : from 2015 07 17 to 2016 04 30 [Change](#)

[TOP](#)

## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2015-07-17 to 2016-04-30 ; Target : 2.9 ; SD : 0.29

Lab035



Month : 2016 04 [Change](#) ; Cumulative : from 2015 07 17 to 2016 04 30 [Change](#)

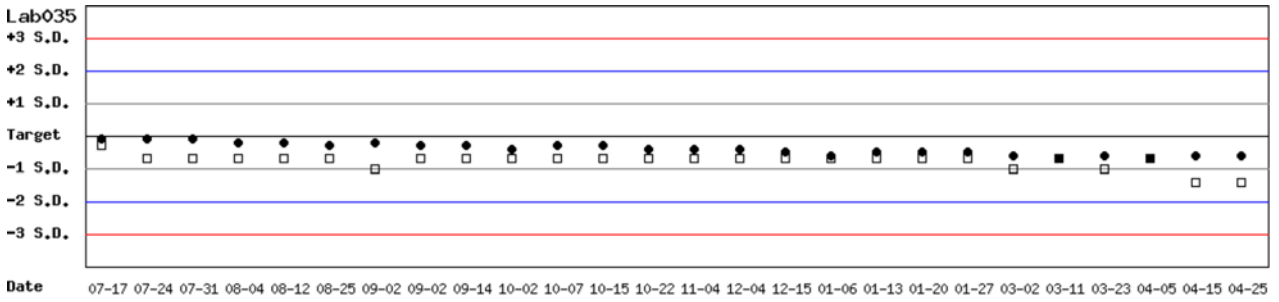
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-07-17 to 2016-04-30 ; Target : 12.8 ; SD : 1.28 ( ● )

Lot No.: AC1203D ; Duration : 2015-07-17 to 2016-04-30 ; Target : 2.9 ; SD : 0.29 ( □ )

Lab035



Month : 2016 04  ; Cumulative : from 2015 07 17 to 2016 04 30

[\[TOP\]](#)

## 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 ▼ 04 ▼ 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="#">Lab019</a>	2	12.8	13.0	5	1.1	8.5	18.5	20	2.2	2.9	3.0	5	0.4	13.3	30.1	20	1.2
<a href="#">Lab024</a>	2	11.6	10.6	5	0.9	8.5	25.6	20	1.3	2.7	2.7	5	0.2	7.4	14.8	20	2.7
<a href="#">Lab027</a>	2	12.3	11.1	8	1.0	9.0	27.8	20	1.1	2.9	2.5	8	0.4	16.0	45.8	20	0.4
<a href="#">Lab028</a>	2	14.2	12.9	12	0.9	7.0	23.1	20	1.5	3.3	3.1	12	0.3	9.7	25.4	20	1.4
<a href="#">Lab031</a>	2	12.8	9.9	3	1.1	11.1	44.9	20	-0.2	2.9	2.0	3	0.3	15.0	61.0	20	-0.7
<a href="#">Lab034</a>	2	12.8	12.2	5	0.4	3.3	11.2	20	4.6	2.9	3.0	5	0.3	10.0	23.4	20	1.7
<a href="#">Lab035</a>	2	12.8	12.0	3	0.1	0.8	7.9	20	>6	2.9	2.6	3	0.1	3.8	18.0	20	2.5
<a href="#">Lab037</a>	2	12.8	11.6	5	0.6	5.2	19.7	20	2.0	2.9	2.8	5	0.2	7.1	17.7	20	2.3
<a href="#">Lab038</a>	2	12.8	12.7	4	0.2	1.6	3.9	20	>6	2.9	3.4	4	0.6	17.6	52.5	20	0.2
<a href="#">Lab040</a>	2	12.8	12.3	1	-	-	-	20	-	2.9	2.5	1	-	-	-	20	-
<b>Total</b>	-	-	11.9	51	1.2	10.1	-	-	-	-	2.8	51	0.5	17.9	-	-	-

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 ▼ 04 ▼ 30 ▼ 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	76	1.6	14.8	38.9	20	0.7	2.7	2.6	76	1.1	42.3	88.3	20	0.4
<a href="#">Lab019</a>	2	12.8	12.2	114	1.2	9.8	24.4	20	1.6	2.9	2.8	114	0.4	14.3	32.0	20	1.2
<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	23	1.1	9.2	34.7	20	0.4	3.3	3.1	23	0.3	9.7	25.4	20	1.4
<a href="#">Lab024</a>	2	11.6	11.1	54	1.2	10.8	25.9	20	1.5	2.7	2.7	54	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	138	1.6	13.6	31.2	20	1.2	2.9	2.7	138	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	14.2	13.8	227	1.2	8.7	20.2	20	2.0	3.3	3.4	227	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	12.8	10.1	66	1.3	12.9	46.8	20	-0.1	2.9	2.4	66	0.4	16.7	50.6	20	0.2
<a href="#">Lab032</a>	2	13.8	11.3	177	2.0	17.7	53.5	20	0.1	3.5	2.6	177	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	12.5	53	0.6	4.8	11.9	20	3.7	2.9	3.0	53	0.2	6.7	16.8	20	2.5
<a href="#">Lab035</a>	2	12.8	12.5	43	0.7	5.6	13.5	20	3.2	2.9	2.8	43	0.3	10.7	24.9	20	1.5
<a href="#">Lab037</a>	2	12.8	12.1	18	0.9	7.4	20.3	20	2.0	2.9	3.0	18	0.3	10.0	23.4	20	1.7
<a href="#">Lab038</a>	2	12.8	12.6	46	1.1	8.7	19.0	20	2.1	2.9	3.2	46	0.5	15.6	41.6	20	0.6
<a href="#">Lab040</a>	2	12.8	12.3	1	-	-	-	20	-	2.9	2.5	1	-	-	-	20	-
<b>Total</b>	-	-	12.1	1437	1.8	14.9	-	-	-	-	2.9	1437	0.6	20.7	-	-	-

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 (2016/04)								CUM (2014/02/01~2016/04/30)							
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	-	0	-	-	-	20	-	11.9	10.8	76	1.6	14.8	38.9	20	0.7
<a href="#">Lab019</a>	2	12.8	13.0	5	1.1	8.5	18.5	20	2.2	12.8	12.2	114	1.2	9.8	24.4	20	1.6
<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	-	0	-	-	-	20	-	14.2	11.9	23	1.1	9.2	34.7	20	0.4
<a href="#">Lab024</a>	2	11.6	10.6	5	0.9	8.5	25.6	20	1.3	11.6	11.1	54	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	11.1	8	1.0	9.0	27.8	20	1.1	12.3	11.8	138	1.6	13.6	31.2	20	1.2
<a href="#">Lab028</a>	2	14.2	12.9	12	0.9	7.0	23.1	20	1.5	14.2	13.8	227	1.2	8.7	20.2	20	2.0
<a href="#">Lab031</a>	2	12.8	9.9	3	1.1	11.1	44.9	20	-0.2	12.8	10.1	66	1.3	12.9	46.8	20	-0.1
<a href="#">Lab032</a>	2	13.8	-	0	-	-	-	20	-	13.8	11.3	177	2.0	17.7	53.5	20	0.1
<a href="#">Lab033</a>	2	12.9	-	0	-	-	-	20	-	12.9	12.2	100	1.0	8.2	21.8	20	1.8
<a href="#">Lab034</a>	2	12.8	12.2	5	0.4	3.3	11.2	20	4.6	12.8	12.5	53	0.6	4.8	11.9	20	3.7
<a href="#">Lab035</a>	2	12.8	12.0	3	0.1	0.8	7.9	20	>6	12.8	12.5	43	0.7	5.6	13.5	20	3.2
<a href="#">Lab037</a>	2	12.8	11.6	5	0.6	5.2	19.7	20	2.0	12.8	12.1	18	0.9	7.4	20.3	20	2.0
<a href="#">Lab038</a>	2	12.8	12.7	4	0.2	1.6	3.9	20	>6	12.8	12.6	46	1.1	8.7	19.0	20	2.1
<a href="#">Lab040</a>	2	12.8	12.3	1	-	-	-	20	-	12.8	12.3	1	-	-	-	20	-
Total	-	-	11.9	51	1.2	10.1	-	-	-	-	12.1	1437	1.8	14.9	-	-	-

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

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

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

Month : 2016 04 Change

Cumulative : from 2014 02 01 to 2016 04 30 Change

[TOP](#)

### Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2016/04)								CUM (2014/02/01~2016/04/30)							
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	-	0	-	-	-	20	-	2.7	2.6	76	1.1	42.3	88.3	20	0.4
<a href="#">Lab019</a>	2	2.9	3.0	5	0.4	13.3	30.1	20	1.2	2.9	2.8	114	0.4	14.3	32.0	20	1.2
<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	-	0	-	-	-	20	-	3.3	3.1	23	0.3	9.7	25.4	20	1.4
<a href="#">Lab024</a>	2	2.7	2.7	5	0.2	7.4	14.8	20	2.7	2.7	2.7	54	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	2.5	8	0.4	16.0	45.8	20	0.4	2.9	2.7	138	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	3.3	3.1	12	0.3	9.7	25.4	20	1.4	3.3	3.4	227	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	2.9	2.0	3	0.3	15.0	61.0	20	-0.7	2.9	2.4	66	0.4	16.7	50.6	20	0.2
<a href="#">Lab032</a>	2	3.5	-	0	-	-	-	20	-	3.5	2.6	177	0.5	19.2	64.2	20	-0.3
<a href="#">Lab033</a>	2	3.0	-	0	-	-	-	20	-	3.0	2.9	100	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	2.9	3.0	5	0.3	10.0	23.4	20	1.7	2.9	3.0	53	0.2	6.7	16.8	20	2.5
<a href="#">Lab035</a>	2	2.9	2.6	3	0.1	3.8	18.0	20	2.5	2.9	2.8	43	0.3	10.7	24.9	20	1.5
<a href="#">Lab037</a>	2	2.9	2.8	5	0.2	7.1	17.7	20	2.3	2.9	3.0	18	0.3	10.0	23.4	20	1.7
<a href="#">Lab038</a>	2	2.9	3.4	4	0.6	17.6	52.5	20	0.2	2.9	3.2	46	0.5	15.6	41.6	20	0.6
<a href="#">Lab040</a>	2	2.9	2.5	1	-	-	-	20	-	2.9	2.5	1	-	-	-	20	-
Total	-	-	2.8	51	0.5	17.9	-	-	-	-	2.9	1437	0.6	20.7	-	-	-

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

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

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

Month : 2016 04 Change

Cumulative : from 2014 02 01 to 2016 04 30 Change

[TOP](#)

Reagent Kit	Reagent Code
AMP	2