

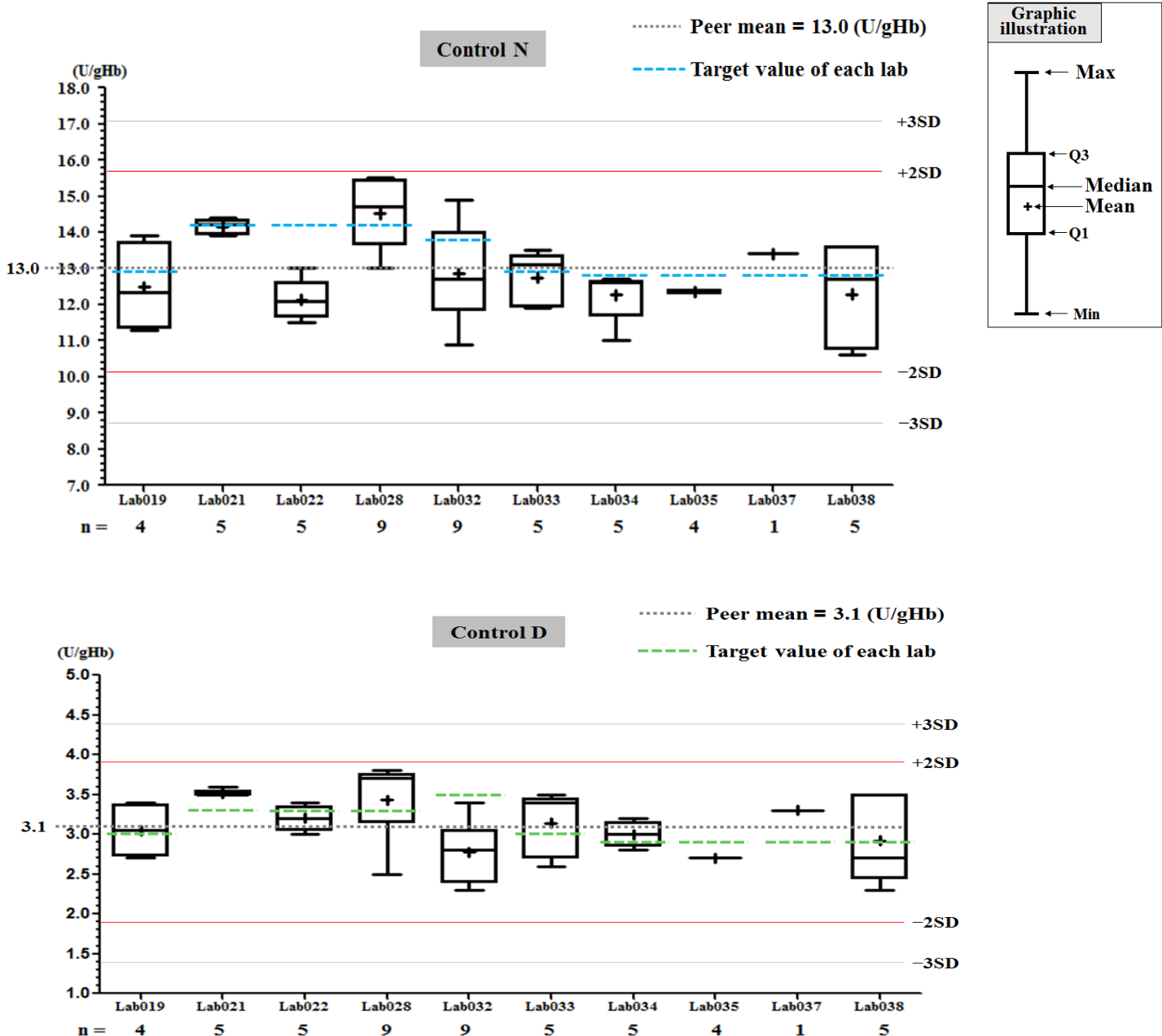
# Summary Report of IQC program for G6PD Quantitative Test - AMP Group - October 2015 -

## 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)	52	52
Median	13.0 (U/gHb)	3.1 (U/gHb)
Mean	13.0 (U/gHb)	3.1 (U/gHb)
SD	1.3	0.4
CV	10.0%	12.9%
Range of G6PD	10.6 ~ 15.5 (U/gHb)	2.3 ~ 3.8 (U/gHb)
Range of Hb	1.1 ~ 2.8 (g/dL)	1.3 ~ 3.2 (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)

## Lab035

QC Control Lot No.	Control N		Control D	
	AC1203N		AC1203D	
Duration of the Analyzing	Month (2015/10)	CUM (2015/04/01~2015/10/31)	Month (2015/10)	CUM (2015/04/01~2015/10/31)
Runs (N)	4	26	4	26
Mean (U/gHb)	12.4	12.7	2.7	2.8
SD	0.1	0.7	0.0	0.3
CV (%)	0.8	5.5	0.0	10.7
Target Value (U/gHb)	12.8	12.8	2.9	2.9
Total Error (%)	4.7	11.8	6.9	24.9
TEa (%)	20	20	20	20
$\sigma$	>6	3.5	>6	1.5

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

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

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

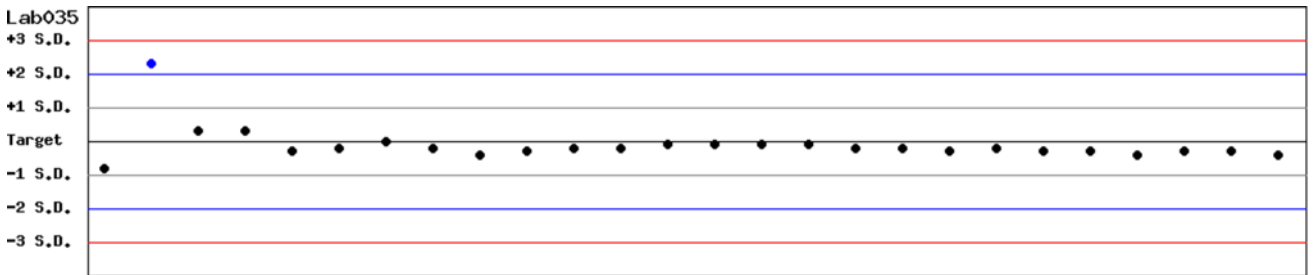
Month : 2015 10  ; Cumulative : from 2015 04 01 to 2015 10 31

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-04-01 to 2015-10-31 ; Target : 12.8 ; SD : 1.28

Lab035



Date 04-09 04-16 04-22 04-28 05-06 05-19 05-27 06-04 06-12 06-19 06-26 07-03 07-10 07-17 07-24 07-31 08-04 08-12 08-25 09-02 09-09 09-14 10-02 10-07 10-15 10-22

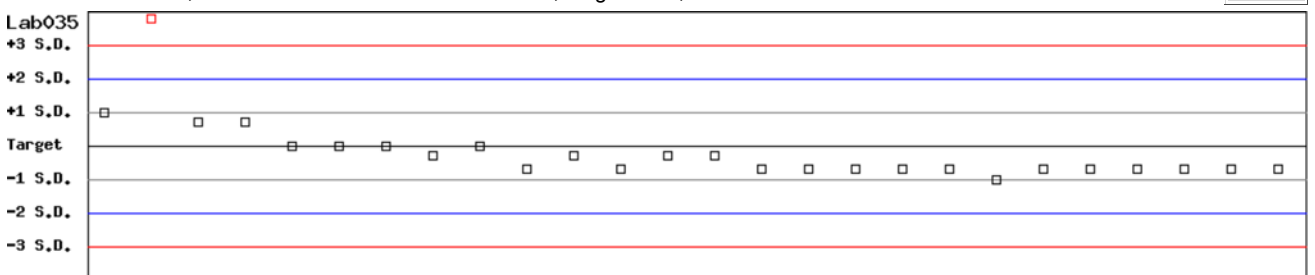
Month : 2015 10  ; Cumulative : from 2015 04 01 to 2015 10 31

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2015-04-01 to 2015-10-31 ; Target : 2.9 ; SD : 0.29

Lab035



Date 04-09 04-16 04-22 04-28 05-06 05-19 05-27 06-04 06-12 06-19 06-26 07-03 07-10 07-17 07-24 07-31 08-04 08-12 08-25 09-02 09-09 09-14 10-02 10-07 10-15 10-22

Month : 2015 10  ; Cumulative : from 2015 04 01 to 2015 10 31

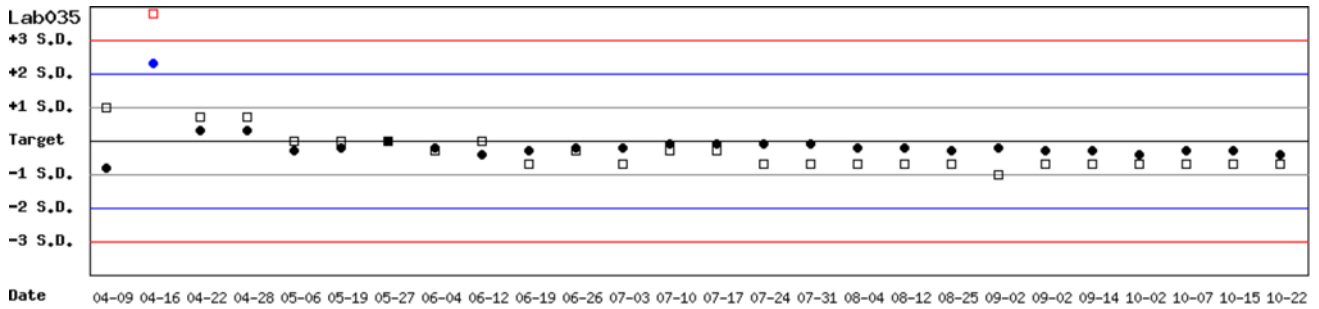
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-04-01 to 2015-10-31 ; Target : 12.8 ; SD : 1.28 ( ● )

Lot No.: AC1203D ; Duration : 2015-04-01 to 2015-10-31 ; Target : 2.9 ; SD : 0.29 ( □ )

Lab035



Month : 2015 10  ; Cumulative : from 2015 04 01 to 2015 10 31

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# Peer Group Statistics (Table 1)

Select LotNo :

Select Reagent Kit :

## Monthly

Month :

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	12.9	12.5	4	1.3	10.4	23.9	20	1.6	3.0	3.1	4	0.4	12.9	29.1	20	1.3
<a href="#">Lab021</a>	2	14.2	14.2	5	0.2	1.4	2.8	20	>6	3.3	3.5	5	0.1	2.9	11.8	20	4.8
<a href="#">Lab022</a>	2	14.2	12.1	5	0.6	5.0	24.7	20	1.0	3.3	3.2	5	0.2	6.3	15.5	20	2.7
<a href="#">Lab028</a>	2	14.2	14.5	9	1.0	6.9	15.9	20	2.6	3.3	3.4	9	0.5	14.7	32.4	20	1.2
<a href="#">Lab032</a>	2	13.8	12.8	9	1.4	10.9	29.1	20	1.2	3.5	2.8	9	0.4	14.3	48.6	20	0.0
<a href="#">Lab033</a>	2	12.9	12.7	5	0.7	5.5	12.6	20	3.4	3.0	3.1	5	0.4	12.9	29.1	20	1.3
<a href="#">Lab034</a>	2	12.8	12.3	5	0.7	5.7	15.3	20	2.8	2.9	3.0	5	0.2	6.7	16.8	20	2.5
<a href="#">Lab035</a>	2	12.8	12.4	4	0.1	0.8	4.7	20	>6	2.9	2.7	4	0.0	0.0	6.9	20	>6
<a href="#">Lab037</a>	2	12.8	13.4	1	-	-	-	20	-	2.9	3.3	1	-	-	-	20	-
<a href="#">Lab038</a>	2	12.8	12.3	5	1.4	11.4	26.7	20	1.4	2.9	2.9	5	0.6	20.7	41.4	20	1.0
Total	-	-	13.0	52	1.3	10.0	-	-	-	-	3.1	52	0.4	12.9	-	-	-

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

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

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

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## Cumulative

Cumulative : from    to

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	10.7	62	1.7	15.9	41.9	20	0.6	2.7	2.5	62	1.2	48.0	103.4	20	0.3
<a href="#">Lab019</a>	2	12.9	12.1	87	1.3	10.7	27.7	20	1.3	3.0	2.8	87	0.4	14.3	35.2	20	0.9
<a href="#">Lab021</a>	2	14.2	14.2	42	0.2	1.4	2.8	20	>6	3.3	3.5	42	0.1	2.9	11.8	20	4.8
<a href="#">Lab022</a>	2	14.2	12.5	6	1.1	8.8	29.6	20	0.9	3.3	3.3	6	0.4	12.1	24.2	20	1.7
<a href="#">Lab024</a>	2	11.6	11.1	39	1.3	11.7	27.7	20	1.3	2.7	2.7	39	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	156	1.3	9.4	20.8	20	1.9	3.3	3.4	156	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	12.8	10.0	59	1.4	14.0	49.9	20	-0.1	2.9	2.4	59	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	12.1	84	1.1	9.1	24.4	20	1.5	3.0	2.9	84	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	12.8	12.5	36	0.5	4.0	10.3	20	4.4	2.9	3.0	36	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	12.8	12.7	30	0.8	6.3	13.4	20	3.1	2.9	2.9	30	0.3	10.3	20.7	20	1.9
<a href="#">Lab037</a>	2	12.8	12.6	7	1.1	8.7	19.0	20	2.1	2.9	3.1	7	0.3	9.7	26.3	20	1.4
<a href="#">Lab038</a>	2	12.8	12.7	22	1.3	10.2	21.3	20	1.9	2.9	3.2	22	0.5	15.6	41.6	20	0.6
Total	-	-	12.0	1157	1.9	15.8	-	-	-	-	2.9	1157	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 (2015/10)								CUM (2014/02/01~2015/10/31)							
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	-	0	-	-	-	20	-	11.9	10.7	62	1.7	15.9	41.9	20	0.6
<a href="#">Lab019</a>	2	12.9	12.5	4	1.3	10.4	23.9	20	1.6	12.9	12.1	87	1.3	10.7	27.7	20	1.3
<a href="#">Lab021</a>	2	14.2	14.2	5	0.2	1.4	2.8	20	>6	14.2	14.2	42	0.2	1.4	2.8	20	>6
<a href="#">Lab022</a>	2	14.2	12.1	5	0.6	5.0	24.7	20	1.0	14.2	12.5	6	1.1	8.8	29.6	20	0.9
<a href="#">Lab024</a>	2	11.6	-	0	-	-	-	20	-	11.6	11.1	39	1.3	11.7	27.7	20	1.3
<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	14.5	9	1.0	6.9	15.9	20	2.6	14.2	13.9	156	1.3	9.4	20.8	20	1.9
<a href="#">Lab031</a>	2	12.8	-	0	-	-	-	20	-	12.8	10.0	59	1.4	14.0	49.9	20	-0.1
<a href="#">Lab032</a>	2	13.8	12.8	9	1.4	10.9	29.1	20	1.2	13.8	11.2	167	1.9	17.0	52.8	20	0.1
<a href="#">Lab033</a>	2	12.9	12.7	5	0.7	5.5	12.6	20	3.4	12.9	12.1	84	1.1	9.1	24.4	20	1.5
<a href="#">Lab034</a>	2	12.8	12.3	5	0.7	5.7	15.3	20	2.8	12.8	12.5	36	0.5	4.0	10.3	20	4.4
<a href="#">Lab035</a>	2	12.8	12.4	4	0.1	0.8	4.7	20	>6	12.8	12.7	30	0.8	6.3	13.4	20	3.1
<a href="#">Lab037</a>	2	12.8	13.4	1	-	-	-	20	-	12.8	12.6	7	1.1	8.7	19.0	20	2.1
<a href="#">Lab038</a>	2	12.8	12.3	5	1.4	11.4	26.7	20	1.4	12.8	12.7	22	1.3	10.2	21.3	20	1.9
<b>Total</b>	-	-	13.0	52	1.3	10.0	-	-	-	-	12.0	1157	1.9	15.8	-	-	-

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 (2015/10)								CUM (2014/02/01~2015/10/31)							
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	-	0	-	-	-	20	-	2.7	2.5	62	1.2	48.0	103.4	20	0.3
<a href="#">Lab019</a>	2	3.0	3.1	4	0.4	12.9	29.1	20	1.3	3.0	2.8	87	0.4	14.3	35.2	20	0.9
<a href="#">Lab021</a>	2	3.3	3.5	5	0.1	2.9	11.8	20	4.8	3.3	3.5	42	0.1	2.9	11.8	20	4.8
<a href="#">Lab022</a>	2	3.3	3.2	5	0.2	6.3	15.5	20	2.7	3.3	3.3	6	0.4	12.1	24.2	20	1.7
<a href="#">Lab024</a>	2	2.7	-	0	-	-	-	20	-	2.7	2.7	39	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	0.5	14.7	32.4	20	1.2	3.3	3.4	156	0.6	17.6	38.3	20	1.0
<a href="#">Lab031</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.4	59	0.4	16.7	50.6	20	0.2
<a href="#">Lab032</a>	2	3.5	2.8	9	0.4	14.3	48.6	20	0.0	3.5	2.6	167	0.5	19.2	64.2	20	-0.3
<a href="#">Lab033</a>	2	3.0	3.1	5	0.4	12.9	29.1	20	1.3	3.0	2.9	84	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	2.9	3.0	5	0.2	6.7	16.8	20	2.5	2.9	3.0	36	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	30	0.3	10.3	20.7	20	1.9
<a href="#">Lab037</a>	2	2.9	3.3	1	-	-	-	20	-	2.9	3.1	7	0.3	9.7	26.3	20	1.4
<a href="#">Lab038</a>	2	2.9	2.9	5	0.6	20.7	41.4	20	1.0	2.9	3.2	22	0.5	15.6	41.6	20	0.6
<b>Total</b>	-	-	3.1	52	0.4	12.9	-	-	-	-	2.9	1157	0.7	24.1	-	-	-

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