

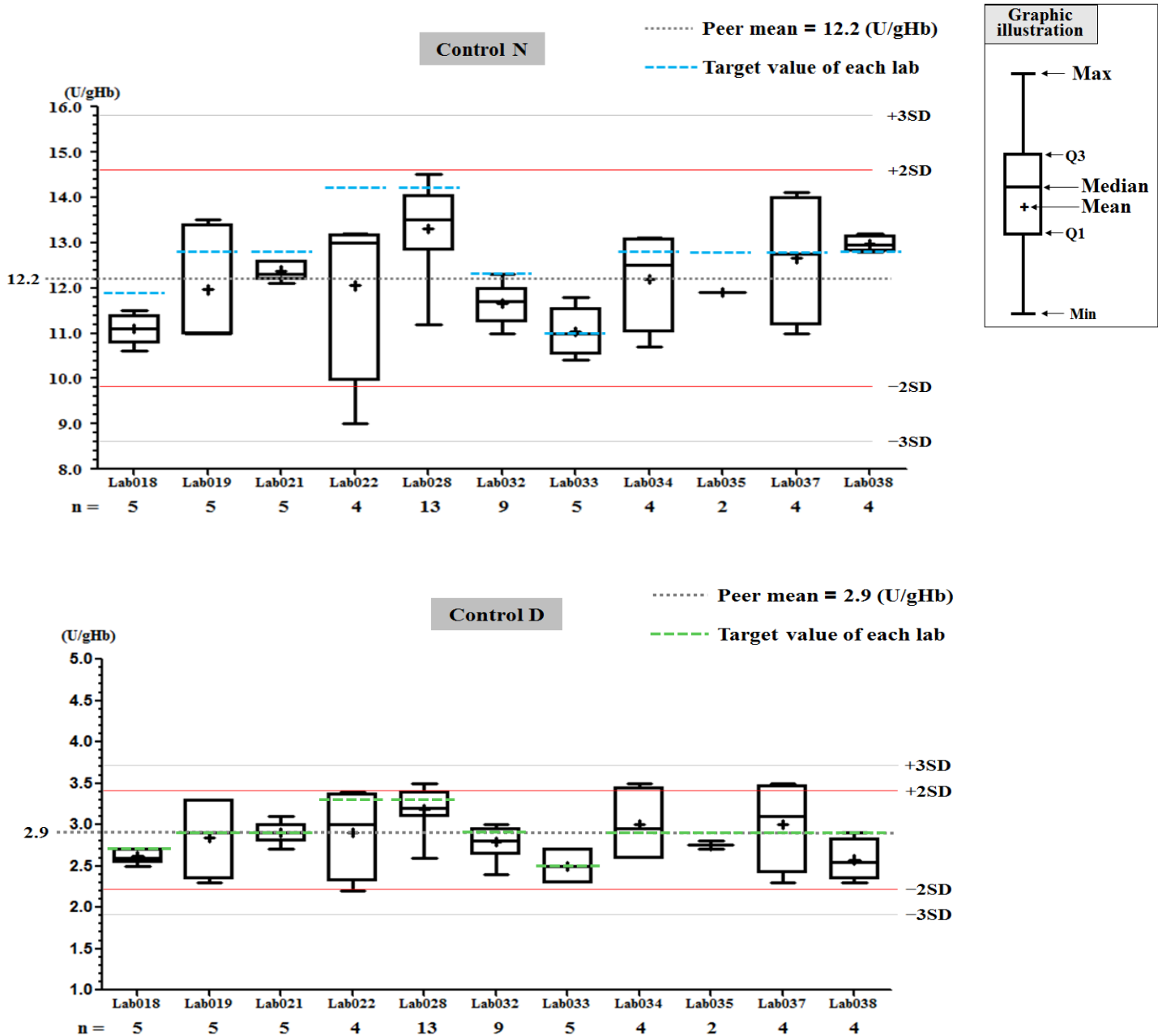
# Summary Report of IQC program for G6PD Quantitative Test - AMP Group - June 2016 -

## 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)	60	60
Median	12.2 (U/gHb)	2.8 (U/gHb)
Mean	12.2 (U/gHb)	2.9 (U/gHb)
SD	1.2	0.4
CV	9.8%	13.8%
Range of G6PD	9.0 ~ 14.5 (U/gHb)	2.2 ~ 3.5 (U/gHb)
Range of Hb	2.2 ~ 3.2 (g/dL)	2.6 ~ 4.1 (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](#)

## Lab028

	Control N		Control D	
QC Control Lot No.	AC1203N		AC1203D	
Duration of the Analyzing	Month (2016/06)	CUM (2016/04/28~2016/06/30)	Month (2016/06)	CUM (2016/04/28~2016/06/30)
Runs (N)	13	26	13	26
Mean (U/gHb)	13.3	13.0	3.2	3.1
SD	1.0	1.0	0.3	0.3
CV (%)	7.5	7.7	9.4	9.7
Target Value (U/gHb)	14.2	14.2	3.3	3.3
Total Error (%)	21.4	23.8	21.8	25.4
TEa (%)	20	20	20	20
$\sigma$	1.8	1.5	1.8	1.4

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

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

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

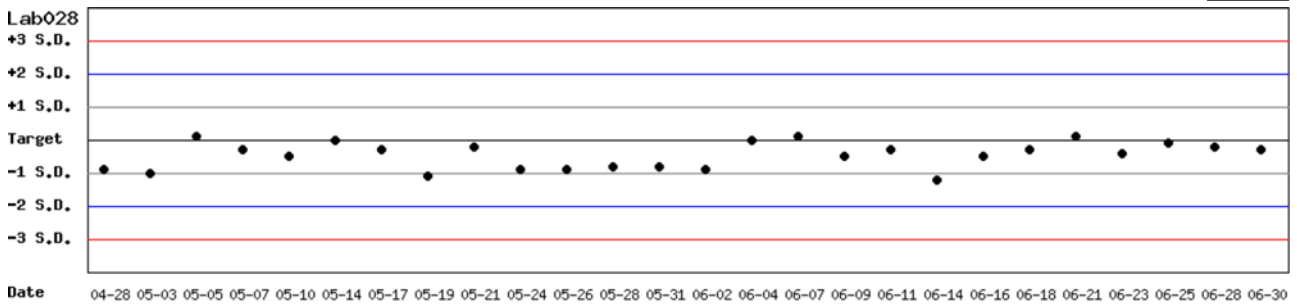
Month : 2016 06 [Change](#) ; Cumulative : from 2016 04 28 to 2016 06 30 [Change](#)

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-04-28 to 2016-06-30 ; Target : 14.2 ; SD : 2.6

Lab028



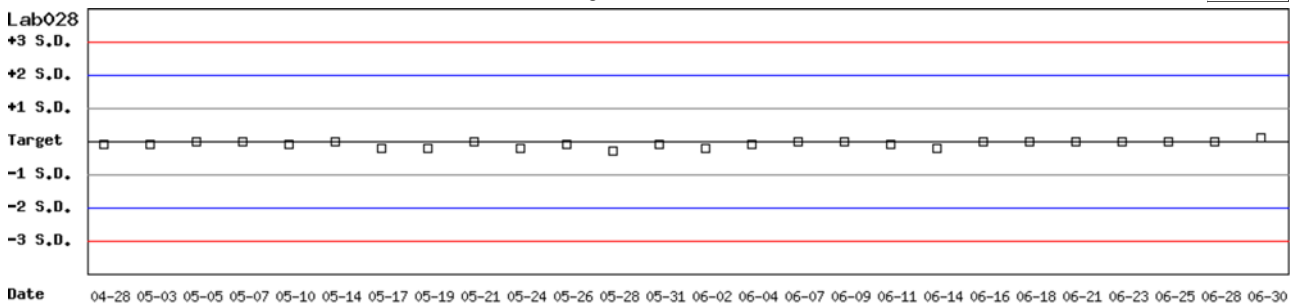
Month : 2016 06 [Change](#) ; Cumulative : from 2016 04 28 to 2016 06 30 [Change](#)

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2016-04-28 to 2016-06-30 ; Target : 3.3 ; SD : 3.1

Lab028



Month : 2016 06 [Change](#) ; Cumulative : from 2016 04 28 to 2016 06 30 [Change](#)

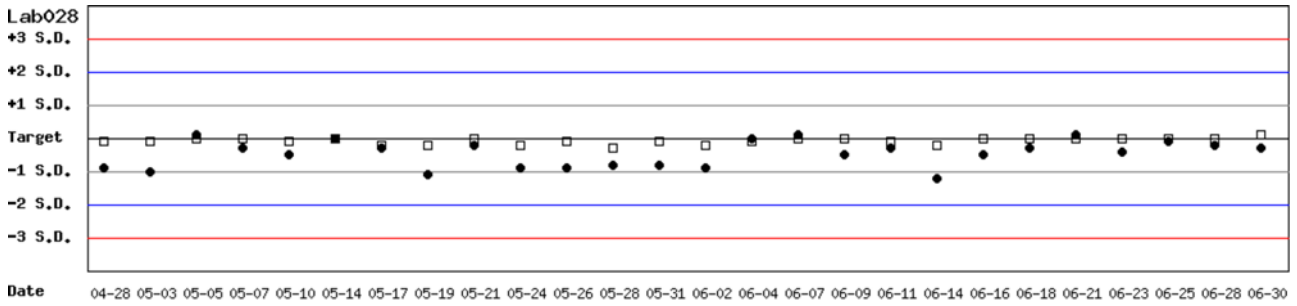
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-04-28 to 2016-06-30 ; Target : 14.2 ; SD : 2.6 (●)

Lot No.: AC1203D ; Duration : 2016-04-28 to 2016-06-30 ; Target : 3.3 ; SD : 3.1 (□)

Lab028



Month : 2016 | 06 |  ; Cumulative : from 2016 | 04 | 28 | to 2016 | 06 | 30 |

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## Peer Group Statistics (Table 1)

Select LotNo :

Select Reagent Kit :

### Monthly

Month :

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	11.1	5	0.3	2.7	12.1	20	4.9	2.7	2.6	5	0.1	3.8	11.4	20	4.3
<a href="#">Lab019</a>	2	12.8	12.0	5	1.3	10.8	27.9	20	1.3	2.9	2.8	5	0.5	17.9	39.2	20	0.9
<a href="#">Lab021</a>	2	12.8	12.4	5	0.2	1.6	6.4	20	>6	2.9	2.9	5	0.1	3.4	6.9	20	5.9
<a href="#">Lab022</a>	2	14.2	12.1	4	2.0	16.5	47.8	20	0.3	3.3	2.9	4	0.6	20.7	53.5	20	0.4
<a href="#">Lab028</a>	2	14.2	13.3	13	1.0	7.5	21.4	20	1.8	3.3	3.2	13	0.3	9.4	21.8	20	1.8
<a href="#">Lab032</a>	2	12.3	11.7	9	0.4	3.4	11.7	20	4.4	2.9	2.8	9	0.2	7.1	17.7	20	2.3
<a href="#">Lab033</a>	2	11.0	11.0	5	0.5	4.5	9.1	20	4.4	2.5	2.5	5	0.2	8.0	16.0	20	2.5
<a href="#">Lab034</a>	2	12.8	12.2	4	1.1	9.0	22.7	20	1.7	2.9	3.0	4	0.5	16.7	36.8	20	1.0
<a href="#">Lab035</a>	2	12.8	11.9	2	-	-	-	20	-	2.9	2.8	2	-	-	-	20	-
<a href="#">Lab037</a>	2	12.8	12.7	4	1.5	11.8	24.4	20	1.6	2.9	3.0	4	0.6	20.0	43.4	20	0.8
<a href="#">Lab038</a>	2	12.8	13.0	4	0.2	1.5	4.6	20	>6	2.9	2.6	4	0.3	11.5	33.4	20	0.8
Total	-	-	12.2	60	1.2	9.8	-	-	-	-	2.9	60	0.4	13.8	-	-	-

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

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

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

[TOP](#)

### Cumulative

Cumulative : from    to

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	10.9	93	1.4	12.8	34.1	20	0.9	2.7	2.6	93	1.0	38.5	80.6	20	0.4
<a href="#">Lab019</a>	2	12.8	12.2	123	1.2	9.8	24.4	20	1.6	2.9	2.8	123	0.4	14.3	32.0	20	1.2
<a href="#">Lab021</a>	2	12.8	14.0	63	0.7	5.0	19.4	20	2.1	2.9	3.4	63	0.2	5.9	29.0	20	0.5
<a href="#">Lab022</a>	2	14.2	11.7	45	1.2	10.3	38.1	20	0.2	3.3	2.9	45	0.4	13.8	39.7	20	0.6
<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	147	1.6	13.6	31.2	20	1.2	2.9	2.7	147	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	14.2	13.7	258	1.2	8.8	21.0	20	1.9	3.3	3.3	258	0.5	15.2	30.3	20	1.3
<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	219	1.9	16.5	39.5	20	0.8	2.9	2.7	219	0.5	18.5	43.9	20	0.7
<a href="#">Lab033</a>	2	11.0	12.1	112	1.0	8.3	26.5	20	1.2	2.5	2.9	112	0.3	10.3	36.7	20	0.4
<a href="#">Lab034</a>	2	12.8	12.5	62	0.6	4.8	11.9	20	3.7	2.9	3.0	62	0.2	6.7	16.8	20	2.5
<a href="#">Lab035</a>	2	12.8	12.4	52	0.7	5.6	14.4	20	3.0	2.9	2.8	52	0.3	10.7	24.9	20	1.5
<a href="#">Lab037</a>	2	12.8	12.4	26	1.1	8.9	20.9	20	1.9	2.9	3.0	26	0.3	10.0	23.4	20	1.7
<a href="#">Lab038</a>	2	12.8	12.7	55	1.0	7.9	16.5	20	2.4	2.9	3.1	55	0.5	16.1	39.2	20	0.8
<a href="#">Lab040</a>	2	12.8	11.7	5	0.5	4.3	17.1	20	2.7	2.9	2.5	5	0.1	4.0	21.8	20	1.6
Total	-	-	12.1	1655	1.7	14.0	-	-	-	-	2.9	1655	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 (2016/06)								CUM (2014/02/01~2016/06/30)							
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	5	0.3	2.7	12.1	20	4.9	11.9	10.9	93	1.4	12.8	34.1	20	0.9
<a href="#">Lab019</a>	2	12.8	12.0	5	1.3	10.8	27.9	20	1.3	12.8	12.2	123	1.2	9.8	24.4	20	1.6
<a href="#">Lab021</a>	2	12.8	12.4	5	0.2	1.6	6.4	20	>6	12.8	14.0	63	0.7	5.0	19.4	20	2.1
<a href="#">Lab022</a>	2	14.2	12.1	4	2.0	16.5	47.8	20	0.3	14.2	11.7	45	1.2	10.3	38.1	20	0.2
<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	-	0	-	-	-	20	-	12.3	11.8	147	1.6	13.6	31.2	20	1.2
<a href="#">Lab028</a>	2	14.2	13.3	13	1.0	7.5	21.4	20	1.8	14.2	13.7	258	1.2	8.8	21.0	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	11.7	9	0.4	3.4	11.7	20	4.4	12.3	11.5	219	1.9	16.5	39.5	20	0.8
<a href="#">Lab033</a>	2	11.0	11.0	5	0.5	4.5	9.1	20	4.4	11.0	12.1	112	1.0	8.3	26.5	20	1.2
<a href="#">Lab034</a>	2	12.8	12.2	4	1.1	9.0	22.7	20	1.7	12.8	12.5	62	0.6	4.8	11.9	20	3.7
<a href="#">Lab035</a>	2	12.8	11.9	2	-	-	-	20	-	12.8	12.4	52	0.7	5.6	14.4	20	3.0
<a href="#">Lab037</a>	2	12.8	12.7	4	1.5	11.8	24.4	20	1.6	12.8	12.4	26	1.1	8.9	20.9	20	1.9
<a href="#">Lab038</a>	2	12.8	13.0	4	0.2	1.5	4.6	20	>6	12.8	12.7	55	1.0	7.9	16.5	20	2.4
<a href="#">Lab040</a>	2	12.8	-	0	-	-	-	20	-	12.8	11.7	5	0.5	4.3	17.1	20	2.7
Total	-	-	12.2	60	1.2	9.8	-	-	-	-	12.1	1655	1.7	14.0	-	-	-

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

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

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

Month : 2016 06 Change

Cumulative : from 2014 02 01 to 2016 06 30 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2016/06)								CUM (2014/02/01~2016/06/30)							
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	2.6	5	0.1	3.8	11.4	20	4.3	2.7	2.6	93	1.0	38.5	80.6	20	0.4
<a href="#">Lab019</a>	2	2.9	2.8	5	0.5	17.9	39.2	20	0.9	2.9	2.8	123	0.4	14.3	32.0	20	1.2
<a href="#">Lab021</a>	2	2.9	2.9	5	0.1	3.4	6.9	20	5.9	2.9	3.4	63	0.2	5.9	29.0	20	0.5
<a href="#">Lab022</a>	2	3.3	2.9	4	0.6	20.7	53.5	20	0.4	3.3	2.9	45	0.4	13.8	39.7	20	0.6
<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	-	0	-	-	-	20	-	2.9	2.7	147	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	3.3	3.2	13	0.3	9.4	21.8	20	1.8	3.3	3.3	258	0.5	15.2	30.3	20	1.3
<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	2.8	9	0.2	7.1	17.7	20	2.3	2.9	2.7	219	0.5	18.5	43.9	20	0.7
<a href="#">Lab033</a>	2	2.5	2.5	5	0.2	8.0	16.0	20	2.5	2.5	2.9	112	0.3	10.3	36.7	20	0.4
<a href="#">Lab034</a>	2	2.9	3.0	4	0.5	16.7	36.8	20	1.0	2.9	3.0	62	0.2	6.7	16.8	20	2.5
<a href="#">Lab035</a>	2	2.9	2.8	2	-	-	-	20	-	2.9	2.8	52	0.3	10.7	24.9	20	1.5
<a href="#">Lab037</a>	2	2.9	3.0	4	0.6	20.0	43.4	20	0.8	2.9	3.0	26	0.3	10.0	23.4	20	1.7
<a href="#">Lab038</a>	2	2.9	2.6	4	0.3	11.5	33.4	20	0.8	2.9	3.1	55	0.5	16.1	39.2	20	0.8
<a href="#">Lab040</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.5	5	0.1	4.0	21.8	20	1.6
Total	-	-	2.9	60	0.4	13.8	-	-	-	-	2.9	1655	0.6	20.7	-	-	-

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

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

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

Month : 2016 06 Change

Cumulative : from 2014 02 01 to 2016 06 30 Change

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Reagent Kit	Reagent Code
AMP	2