

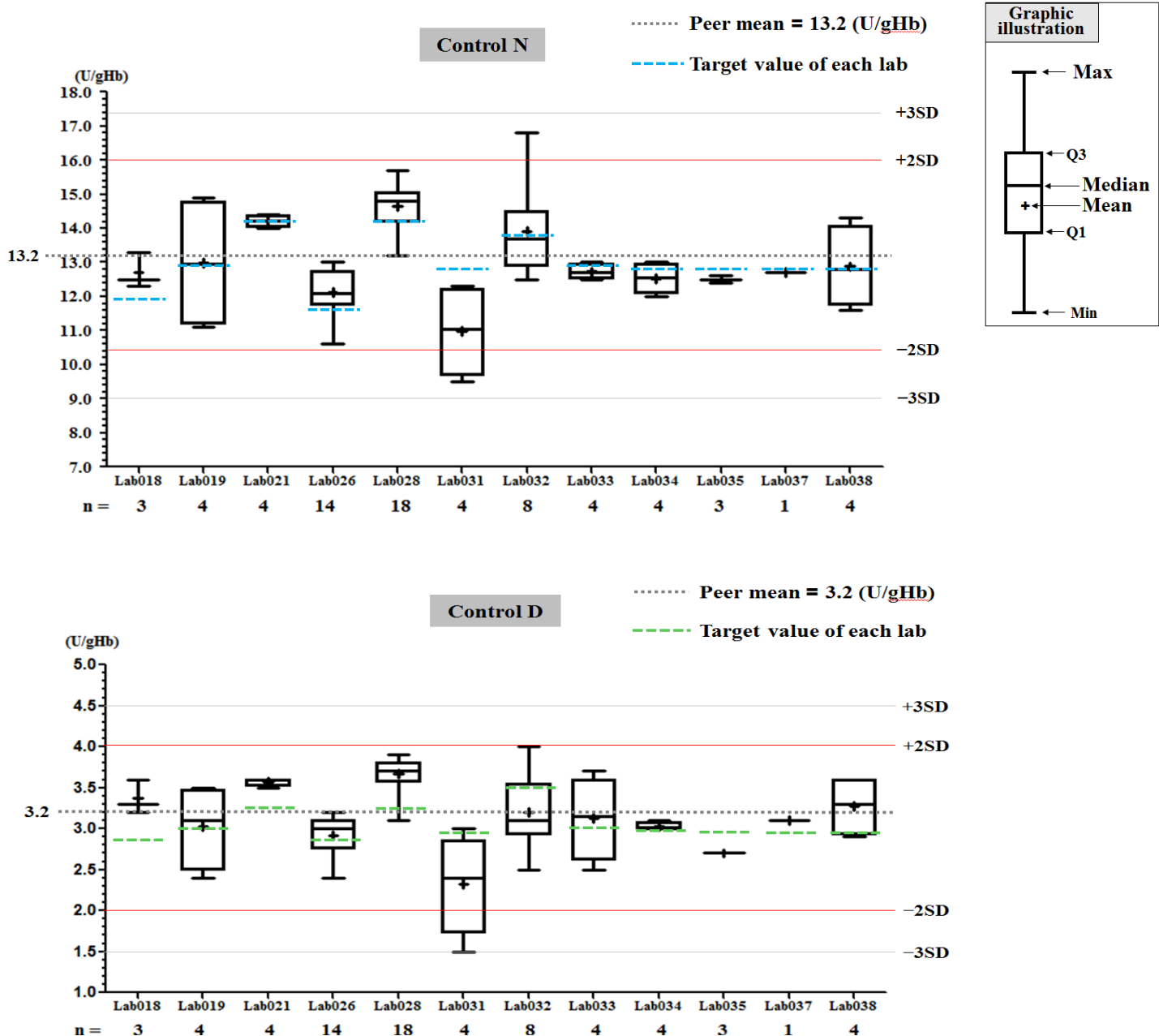
# Summary Report of IQC program for G6PD Quantitative Test - AMP Group - August 2015 -

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

G6PD	Control N (Lot No.:AC1203N)	Control D (Lot No.:AC1203D)
Labs	12	12
Received results number (n)	71	71
Median	12.9 (U/gHb)	3.1 (U/gHb)
Mean	13.2 (U/gHb)	3.2 (U/gHb)
SD	1.4	0.5
CV	10.6%	15.6%
Range of G6PD	9.5 ~ 16.8 (U/gHb)	1.5 ~ 4.0 (U/gHb)
Range of Hb	2.0 ~ 3.5 (g/dL)	2.1 ~ 4.5 (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](#)

## Lab026

QC Control Lot No.	Control N		Control D	
	AC1203N		AC1203D	
Duration of the Analyzing	Month (2015/08)	CUM (2015/07/06~2015/08/31)	Month (2015/08)	CUM (2015/07/06~2015/08/31)
Runs (N)	14	26	14	26
Mean (U/gHb)	12.1	11.8	2.9	2.8
SD	0.7	0.8	0.2	0.3
CV (%)	5.8	6.8	6.9	10.7
Target Value (U/gHb)	11.6	11.6	2.7	2.7
Total Error (%)	15.9	15.3	21.2	25.1
TEa (%)	36	36	36	36
$\sigma$	5.5	5.0	4.1	3.0

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

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

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

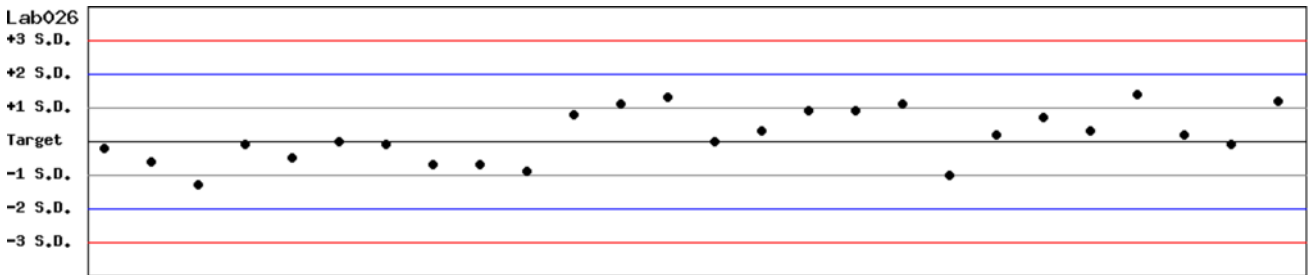
Month : 2015 08 [Change](#) ; Cumulative : from 2015 07 06 to 2015 08 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-07-06 to 2015-08-31 ; Target : 11.6 ; SD : 1.00

Lab026



Date 07-06 07-08 07-13 07-15 07-17 07-18 07-20 07-22 07-24 07-27 07-29 07-31 08-03 08-05 08-07 08-10 08-12 08-14 08-17 08-19 08-20 08-21 08-24 08-26 08-29 08-31

Month : 2015 08 [Change](#) ; Cumulative : from 2015 07 06 to 2015 08 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2015-07-06 to 2015-08-31 ; Target : 2.7 ; SD : 0.25

Lab026



Date 07-06 07-08 07-13 07-15 07-17 07-18 07-20 07-22 07-24 07-27 07-29 07-31 08-03 08-05 08-07 08-10 08-12 08-14 08-17 08-19 08-20 08-21 08-24 08-26 08-29 08-31

Month : 2015 08 [Change](#) ; Cumulative : from 2015 07 06 to 2015 08 31 [Change](#)

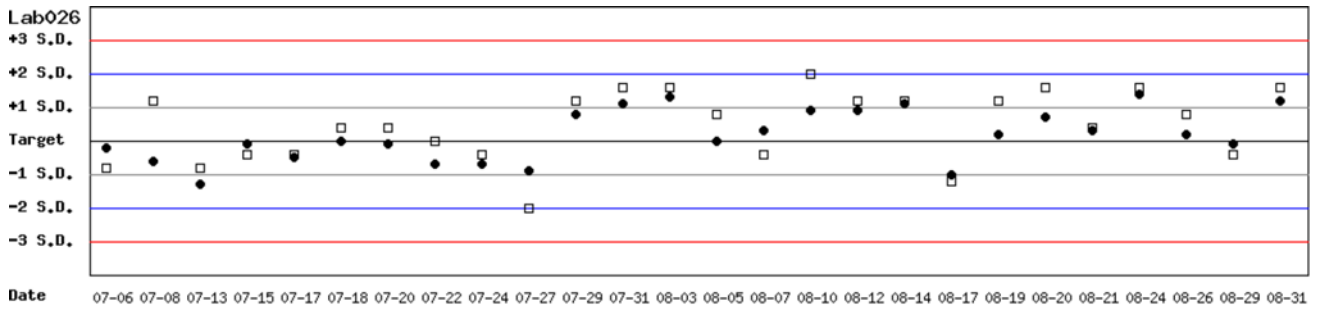
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2015-07-06 to 2015-08-31 ; Target : 11.6 ; SD : 1.00 ( ● )

Lot No.: AC1203D ; Duration : 2015-07-06 to 2015-08-31 ; Target : 2.7 ; SD : 0.25 ( ◻ )

Lab026



Month : 2015 08  ; Cumulative : from 2015 07 06 to 2015 08 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 : 2015 ▼ 08 ▼ 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	12.7	3	0.5	3.9	14.6	20	3.4	2.7	3.4	3	0.2	5.9	37.7	20	-1.0
<a href="#">Lab019</a>	2	12.9	13.0	4	2.0	15.4	31.5	20	1.2	3.0	3.0	4	0.5	16.7	33.3	20	1.2
<a href="#">Lab021</a>	2	14.2	14.2	4	0.2	1.4	2.8	20	>6	3.3	3.6	4	0.1	2.8	14.6	20	3.9
<a href="#">Lab026</a>	2	11.6	12.1	14	0.7	5.8	15.9	36	5.5	2.7	2.9	14	0.2	6.9	21.2	36	4.1
<a href="#">Lab028</a>	2	14.2	14.6	18	0.7	4.8	12.4	20	3.6	3.3	3.7	18	0.2	5.4	22.9	20	1.5
<a href="#">Lab031</a>	2	12.8	11.0	4	1.3	11.8	37.7	20	0.5	2.9	2.3	4	0.6	26.1	72.9	20	0.0
<a href="#">Lab032</a>	2	13.8	13.9	8	1.4	10.1	20.9	20	1.9	3.5	3.2	8	0.5	15.6	39.8	20	0.7
<a href="#">Lab033</a>	2	12.9	12.7	4	0.2	1.6	4.7	20	>6	3.0	3.1	4	0.5	16.1	35.6	20	1.0
<a href="#">Lab034</a>	2	12.8	12.5	4	0.5	4.0	10.3	20	4.4	2.9	3.0	4	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	12.8	12.5	3	0.1	0.8	3.9	20	>6	2.9	2.7	3	0.0	0.0	6.9	20	>6
<a href="#">Lab037</a>	2	12.8	12.7	1	-	-	-	20	-	2.9	3.1	1	-	-	-	20	-
<a href="#">Lab038</a>	2	12.8	12.9	4	1.2	9.3	19.4	20	2.1	2.9	3.3	4	0.4	12.1	38.0	20	0.5
Total	-	-	13.2	71	1.4	10.6	-	-	-	-	3.2	71	0.5	15.6	-	-	-

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 2015 ▼ 08 ▼ 31 ▼ 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	10.6	59	1.7	16.0	43.0	20	0.6	2.7	2.5	59	1.2	48.0	103.4	20	0.3
<a href="#">Lab019</a>	2	12.9	12.0	78	1.3	10.8	28.6	20	1.2	3.0	2.7	78	0.4	14.8	39.6	20	0.7
<a href="#">Lab021</a>	2	14.2	14.2	33	0.2	1.4	2.8	20	>6	3.3	3.4	33	0.1	2.9	8.9	20	5.9
<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	204	1.6	13.9	28.7	36	2.5	2.7	2.8	204	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	13.8	134	1.4	10.1	23.1	20	1.7	3.3	3.4	134	0.7	20.6	44.2	20	0.8
<a href="#">Lab031</a>	2	12.8	9.9	57	1.3	13.1	48.9	20	-0.2	2.9	2.3	57	0.4	17.4	55.5	20	0.0
<a href="#">Lab032</a>	2	13.8	11.0	150	1.9	17.3	54.8	20	0.0	3.5	2.5	150	0.5	20.0	68.6	20	-0.4
<a href="#">Lab033</a>	2	12.9	12.1	75	1.1	9.1	24.4	20	1.5	3.0	2.9	75	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	12.8	12.6	27	0.4	3.2	7.9	20	5.8	2.9	3.0	27	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	12.8	12.8	23	0.9	7.0	14.1	20	2.9	2.9	3.0	23	0.4	13.3	30.1	20	1.2
<a href="#">Lab037</a>	2	12.8	12.4	5	1.2	9.7	22.5	20	1.7	2.9	3.0	5	0.4	13.3	30.1	20	1.2
<a href="#">Lab038</a>	2	12.8	13.0	13	1.2	9.2	20.0	20	2.0	2.9	3.4	13	0.5	14.7	46.7	20	0.2
Total	-	-	11.9	1046	1.9	16.0	-	-	-	-	2.9	1046	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 : 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 (2015/08)								CUM (2014/02/01~2015/08/31)							
UnitID <span style="font-size: small;">↑</span>	Reagent Kit (Code) <span style="font-size: small;">↑</span>	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	12.7	3	0.5	3.9	14.6	20	3.4	11.9	10.6	59	1.7	16.0	43.0	20	0.6
<a href="#">Lab019</a>	2	12.9	13.0	4	2.0	15.4	31.5	20	1.2	12.9	12.0	78	1.3	10.8	28.6	20	1.2
<a href="#">Lab021</a>	2	14.2	14.2	4	0.2	1.4	2.8	20	>6	14.2	14.2	33	0.2	1.4	2.8	20	>6
<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	12.1	14	0.7	5.8	15.9	36	5.5	11.6	11.5	204	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	14.6	18	0.7	4.8	12.4	20	3.6	14.2	13.8	134	1.4	10.1	23.1	20	1.7
<a href="#">Lab031</a>	2	12.8	11.0	4	1.3	11.8	37.7	20	0.5	12.8	9.9	57	1.3	13.1	48.9	20	-0.2
<a href="#">Lab032</a>	2	13.8	13.9	8	1.4	10.1	20.9	20	1.9	13.8	11.0	150	1.9	17.3	54.8	20	0.0
<a href="#">Lab033</a>	2	12.9	12.7	4	0.2	1.6	4.7	20	>6	12.9	12.1	75	1.1	9.1	24.4	20	1.5
<a href="#">Lab034</a>	2	12.8	12.5	4	0.5	4.0	10.3	20	4.4	12.8	12.6	27	0.4	3.2	7.9	20	5.8
<a href="#">Lab035</a>	2	12.8	12.5	3	0.1	0.8	3.9	20	>6	12.8	12.8	23	0.9	7.0	14.1	20	2.9
<a href="#">Lab037</a>	2	12.8	12.7	1	-	-	-	20	-	12.8	12.4	5	1.2	9.7	22.5	20	1.7
<a href="#">Lab038</a>	2	12.8	12.9	4	1.2	9.3	19.4	20	2.1	12.8	13.0	13	1.2	9.2	20.0	20	2.0
<b>Total</b>	-	-	13.2	71	1.4	10.6	-	-	-	-	11.9	1046	1.9	16.0	-	-	-

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

Month : 2015 08 Change

Cumulative : from 2014 02 01 to 2015 08 31 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2015/08)								CUM (2014/02/01~2015/08/31)							
UnitID <span style="font-size: small;">↑</span>	Reagent Kit (Code) <span style="font-size: small;">↑</span>	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	3.4	3	0.2	5.9	37.7	20	-1.0	2.7	2.5	59	1.2	48.0	103.4	20	0.3
<a href="#">Lab019</a>	2	3.0	3.0	4	0.5	16.7	33.3	20	1.2	3.0	2.7	78	0.4	14.8	39.6	20	0.7
<a href="#">Lab021</a>	2	3.3	3.6	4	0.1	2.8	14.6	20	3.9	3.3	3.4	33	0.1	2.9	8.9	20	5.9
<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	2.9	14	0.2	6.9	21.2	36	4.1	2.7	2.8	204	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	3.7	18	0.2	5.4	22.9	20	1.5	3.3	3.4	134	0.7	20.6	44.2	20	0.8
<a href="#">Lab031</a>	2	2.9	2.3	4	0.6	26.1	72.9	20	0.0	2.9	2.3	57	0.4	17.4	55.5	20	0.0
<a href="#">Lab032</a>	2	3.5	3.2	8	0.5	15.6	39.8	20	0.7	3.5	2.5	150	0.5	20.0	68.6	20	-0.4
<a href="#">Lab033</a>	2	3.0	3.1	4	0.5	16.1	35.6	20	1.0	3.0	2.9	75	0.3	10.3	24.0	20	1.6
<a href="#">Lab034</a>	2	2.9	3.0	4	0.1	3.3	10.1	20	5.0	2.9	3.0	27	0.1	3.3	10.1	20	5.0
<a href="#">Lab035</a>	2	2.9	2.7	3	0.0	0.0	6.9	20	>6	2.9	3.0	23	0.4	13.3	30.1	20	1.2
<a href="#">Lab037</a>	2	2.9	3.1	1	-	-	-	20	-	2.9	3.0	5	0.4	13.3	30.1	20	1.2
<a href="#">Lab038</a>	2	2.9	3.3	4	0.4	12.1	38.0	20	0.5	2.9	3.4	13	0.5	14.7	46.7	20	0.2
<b>Total</b>	-	-	3.2	71	0.5	15.6	-	-	-	-	2.9	1046	0.7	24.1	-	-	-

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

Month : 2015 08 Change

Cumulative : from 2014 02 01 to 2015 08 31 Change

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Reagent Kit	Reagent Code
AMP	2