

Summary Report of IQC program for G6PD Quantitative Test - AMP Group - July 2017 -

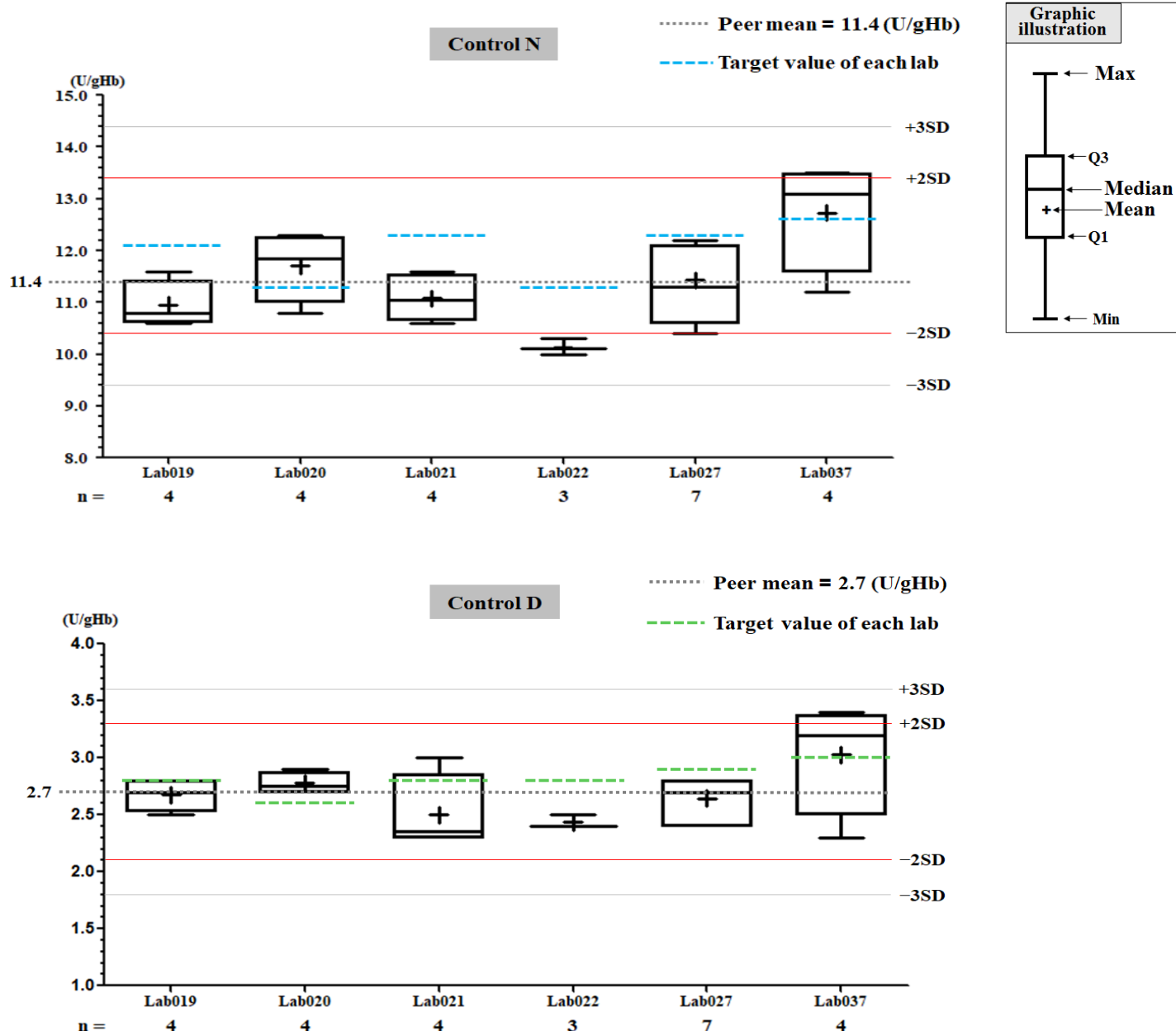
I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:AC1203N)	Control D (Lot No.:AC1203D)
Labs	6	6
Received results number (n)	26	26
Median	11.3 (U/gHb)	2.7 (U/gHb)
Mean	11.4 (U/gHb)	2.7 (U/gHb)
SD	1.0	0.3
CV	8.8%	11.1%
Range of G6PD	10.0 ~ 13.5 (U/gHb)	2.3 ~ 3.4 (U/gHb)
Range of Hb	2.2 ~ 2.6 (g/dL)	2.7 ~ 3.3 (g/dL)

*The statistic results are calculated from all labs reported in this month

** G6PD Method = AMP reagent kit, 37°C

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](#)

Lab037

	Control N		Control D	
QC Control Lot No.	AC1203N		AC1203D	
Duration of the Analyzing	Month (2017/07)	CUM (2017/02/01~2017/07/31)	Month (2017/07)	CUM (2017/02/01~2017/07/31)
Runs (N)	4	26	4	26
Mean (U/gHb)	12.7	12.4	3.0	2.9
SD	1.1	0.9	0.5	0.3
CV (%)	8.7	7.3	16.7	10.3
Target Value (U/gHb)	12.6	12.6	3.0	3.0
Total Error (%)	18.1	16.1	33.3	24.0
TEa (%)	20	20	20	20
σ	2.2	2.5	1.2	1.6

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

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

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

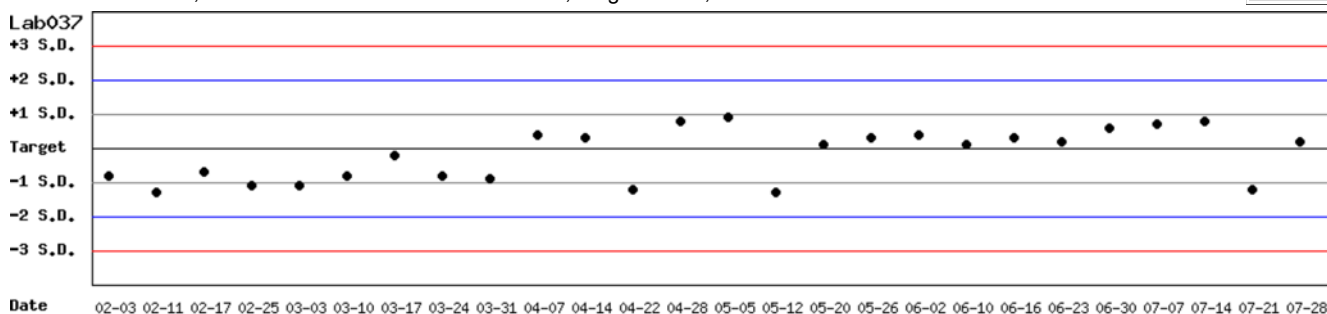
Month : 2017 07 [Change](#) ; Cumulative : from 2017 02 01 to 2017 07 31 [Change](#)

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Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2017-02-01 to 2017-07-31 ; Target : 12.6 ; SD : 1.20

Lab037



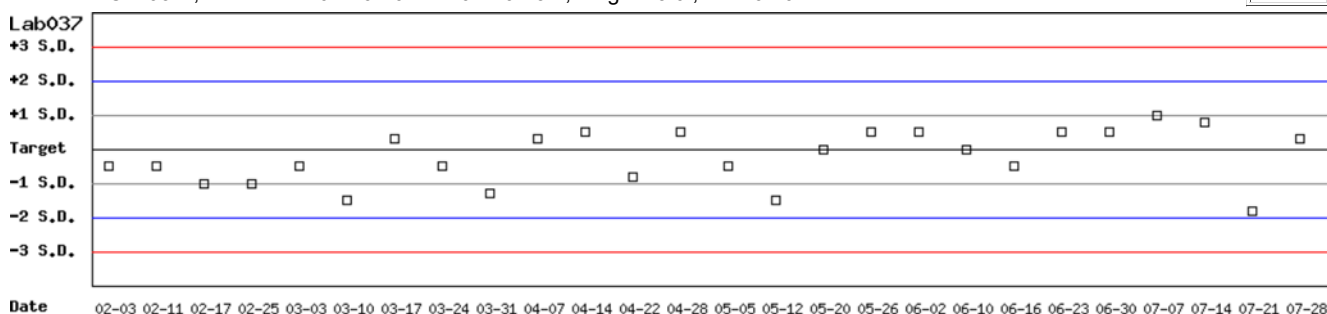
Month : 2017 07 [Change](#) ; Cumulative : from 2017 02 01 to 2017 07 31 [Change](#)

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Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2017-02-01 to 2017-07-31 ; Target : 3.0 ; SD : 0.40

Lab037



Month : 2017 07 [Change](#) ; Cumulative : from 2017 02 01 to 2017 07 31 [Change](#)

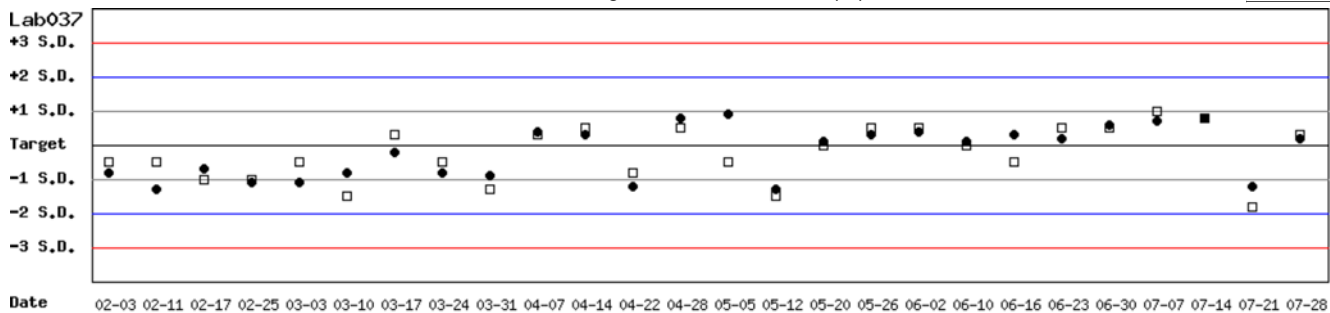
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Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2017-02-01 to 2017-07-31 ; Target : 12.6 ; SD : 1.20 (●)

Lot No.: AC1203D ; Duration : 2017-02-01 to 2017-07-31 ; Target : 3.0 ; SD : 0.40 (□)

Lab037



Month : 2017 07 ; Cumulative : from 2017 02 01 to 2017 07 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
Lab019	2	12.1	11.0	4	0.5	4.5	18.2	20	2.4	2.8	2.7	4	0.2	7.4	18.4	20	2.2
Lab020	2	11.3	11.7	4	0.7	6.0	15.5	20	2.7	2.6	2.8	4	0.1	3.6	14.8	20	3.4
Lab021	2	12.3	11.1	4	0.5	4.5	18.8	20	2.3	2.8	2.5	4	0.3	12.0	34.7	20	0.8
Lab022	2	11.3	10.1	3	0.2	2.0	14.6	20	4.7	2.8	2.4	3	0.1	4.2	22.6	20	1.4
Lab027	2	12.3	11.4	7	0.7	6.1	19.6	20	2.1	2.9	2.6	7	0.2	7.7	25.7	20	1.3
Lab037	2	12.6	12.7	4	1.1	8.7	18.1	20	2.2	3.0	3.0	4	0.5	16.7	33.3	20	1.2
Total	-	-	11.4	26	1.0	8.8	-	-	-	-	2.7	26	0.3	11.1	-	-	-

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
Lab017	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
Lab018	2	10.6	10.9	113	1.3	11.9	26.7	20	1.4	4.1	2.6	113	0.9	34.6	105.8	20	-0.5
Lab019	2	12.1	12.1	174	1.1	9.1	18.2	20	2.2	2.8	2.8	174	0.4	14.3	28.6	20	1.4
Lab020	2	11.3	11.6	27	1.3	11.2	25.1	20	1.5	2.6	2.7	27	0.4	14.8	33.5	20	1.1
Lab021	2	12.3	13.2	103	1.2	9.1	25.5	20	1.4	2.8	3.1	103	0.4	12.9	36.5	20	0.7
Lab022	2	11.3	11.4	76	1.1	9.6	20.2	20	2.0	2.8	2.8	76	0.4	14.3	28.6	20	1.4
Lab024	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
Lab026	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
Lab027	2	12.3	11.4	192	1.8	15.8	38.9	20	0.8	2.9	2.7	192	0.5	18.5	43.9	20	0.7
Lab028	2	12.8	13.4	374	1.3	9.7	24.1	20	1.6	2.9	3.2	374	0.5	15.6	41.6	20	0.6
Lab031	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
Lab032	2	13.2	11.5	222	1.9	16.5	45.9	20	0.4	5.4	2.7	222	0.5	18.5	87.0	20	-1.6
Lab033	2	11.6	11.9	163	1.0	8.4	19.4	20	2.1	2.8	2.9	163	0.3	10.3	24.3	20	1.6
Lab034	2	12.8	12.3	94	0.7	5.7	15.3	20	2.8	2.9	3.0	94	0.3	10.0	23.4	20	1.7
Lab035	2	12.8	12.4	55	0.7	5.6	14.4	20	3.0	2.9	2.8	55	0.3	10.7	24.9	20	1.5
Lab037	2	12.6	12.3	83	1.1	8.9	20.3	20	2.0	3.0	2.9	83	0.4	13.8	30.9	20	1.2
Lab038	2	12.8	12.7	60	1.0	7.9	16.5	20	2.4	2.9	3.2	60	0.5	15.6	41.6	20	0.6
Lab040	2	12.8	11.9	23	0.9	7.6	22.2	20	1.7	2.9	2.7	23	0.4	14.8	36.5	20	0.9
Lab041	2	12.8	11.2	16	1.4	12.5	37.5	20	0.6	2.9	2.8	16	0.3	10.7	24.9	20	1.5
Total	-	-	12.0	2170	1.6	13.3	-	-	-	-	2.9	2170	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 (2017/07)								CUM (2014/02/01~2017/07/31)								
UnitID 🏷️	Reagent Kit (Code) 🏷️	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
Lab017	2	14.2	-	0	-	-	-	20	-		14.2	13.8	36	1.6	11.6	26.0	20	1.5
Lab018	2	10.6	-	0	-	-	-	20	-		10.6	10.9	113	1.3	11.9	26.7	20	1.4
Lab019	2	12.1	11.0	4	0.5	4.5	18.2	20	2.4		12.1	12.1	174	1.1	9.1	18.2	20	2.2
Lab020	2	11.3	11.7	4	0.7	6.0	15.5	20	2.7		11.3	11.6	27	1.3	11.2	25.1	20	1.5
Lab021	2	12.3	11.1	4	0.5	4.5	18.8	20	2.3		12.3	13.2	103	1.2	9.1	25.5	20	1.4
Lab022	2	11.3	10.1	3	0.2	2.0	14.6	20	4.7		11.3	11.4	76	1.1	9.6	20.2	20	2.0
Lab024	2	11.6	-	0	-	-	-	20	-		11.6	11.1	58	1.2	10.8	25.9	20	1.5
Lab026	2	11.6	-	0	-	-	-	36	-		11.6	11.5	212	1.6	13.9	28.7	36	2.5
Lab027	2	12.3	11.4	7	0.7	6.1	19.6	20	2.1		12.3	11.4	192	1.8	15.8	38.9	20	0.8
Lab028	2	12.8	-	0	-	-	-	20	-		12.8	13.4	374	1.3	9.7	24.1	20	1.6
Lab031	2	12.8	-	0	-	-	-	20	-		12.8	10.4	89	1.5	14.4	47.6	20	0.1
Lab032	2	13.2	-	0	-	-	-	20	-		13.2	11.5	222	1.9	16.5	45.9	20	0.4
Lab033	2	11.6	-	0	-	-	-	20	-		11.6	11.9	163	1.0	8.4	19.4	20	2.1
Lab034	2	12.8	-	0	-	-	-	20	-		12.8	12.3	94	0.7	5.7	15.3	20	2.8
Lab035	2	12.8	-	0	-	-	-	20	-		12.8	12.4	55	0.7	5.6	14.4	20	3.0
Lab037	2	12.6	12.7	4	1.1	8.7	18.1	20	2.2		12.6	12.3	83	1.1	8.9	20.3	20	2.0
Lab038	2	12.8	-	0	-	-	-	20	-		12.8	12.7	60	1.0	7.9	16.5	20	2.4
Lab040	2	12.8	-	0	-	-	-	20	-		12.8	11.9	23	0.9	7.6	22.2	20	1.7
Lab041	2	12.8	-	0	-	-	-	20	-		12.8	11.2	16	1.4	12.5	37.5	20	0.6
Total	-	-	11.4	26	1.0	8.8	-	-	-		-	12.0	2170	1.6	13.3	-	-	-

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

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

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

Month : 2017 07 Change

Cumulative : from 2014 02 01 to 2017 07 31 Change

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Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)																
		Month (2017/07)								CUM (2014/02/01~2017/07/31)								
UnitID [†]	Reagent Kit (Code) [†]	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
Lab017	2	3.3	-	0	-	-	-	20	-		3.3	3.9	36	1.4	35.9	90.0	20	0.1
Lab018	2	4.1	-	0	-	-	-	20	-		4.1	2.6	113	0.9	34.6	105.8	20	-0.5
Lab019	2	2.8	2.7	4	0.2	7.4	18.4	20	2.2		2.8	2.8	174	0.4	14.3	28.6	20	1.4
Lab020	2	2.6	2.8	4	0.1	3.6	14.8	20	3.4		2.6	2.7	27	0.4	14.8	33.5	20	1.1
Lab021	2	2.8	2.5	4	0.3	12.0	34.7	20	0.8		2.8	3.1	103	0.4	12.9	36.5	20	0.7
Lab022	2	2.8	2.4	3	0.1	4.2	22.6	20	1.4		2.8	2.8	76	0.4	14.3	28.6	20	1.4
Lab024	2	2.7	-	0	-	-	-	20	-		2.7	2.7	58	0.3	11.1	22.2	20	1.8
Lab026	2	2.7	-	0	-	-	-	36	-		2.7	2.8	212	0.5	17.9	39.4	36	1.8
Lab027	2	2.9	2.6	7	0.2	7.7	25.7	20	1.3		2.9	2.7	192	0.5	18.5	43.9	20	0.7
Lab028	2	2.9	-	0	-	-	-	20	-		2.9	3.2	374	0.5	15.6	41.6	20	0.6
Lab031	2	2.9	-	0	-	-	-	20	-		2.9	2.5	89	0.5	20.0	53.8	20	0.3
Lab032	2	5.4	-	0	-	-	-	20	-		5.4	2.7	222	0.5	18.5	87.0	20	-1.6
Lab033	2	2.8	-	0	-	-	-	20	-		2.8	2.9	163	0.3	10.3	24.3	20	1.6
Lab034	2	2.9	-	0	-	-	-	20	-		2.9	3.0	94	0.3	10.0	23.4	20	1.7
Lab035	2	2.9	-	0	-	-	-	20	-		2.9	2.8	55	0.3	10.7	24.9	20	1.5
Lab037	2	3.0	3.0	4	0.5	16.7	33.3	20	1.2		3.0	2.9	83	0.4	13.8	30.9	20	1.2
Lab038	2	2.9	-	0	-	-	-	20	-		2.9	3.2	60	0.5	15.6	41.6	20	0.6
Lab040	2	2.9	-	0	-	-	-	20	-		2.9	2.7	23	0.4	14.8	36.5	20	0.9
Lab041	2	2.9	-	0	-	-	-	20	-		2.9	2.8	16	0.3	10.7	24.9	20	1.5
Total	-	-	2.7	26	0.3	11.1	-	-	-		-	2.9	2170	0.6	20.7	-	-	-

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

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

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

Month : 2017 07 Change

Cumulative : from 2014 02 01 to 2017 07 31 Change

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Reagent Kit	Reagent Code
AMP	2