

# QC Chart of Internal Quality Control (IQC)for G6PD Quantitative Test

Select LotNo : AC1203N (2014-01-01 ~ 2100-12-31) [Change](#)

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## Lab021

QC Control Lot No.	Control N		Control D	
	AC1203N		AC1203D	
Duration of the Analyzing	Month (2017/08)	CUM (2016/12/01~2017/08/31)	Month (2017/08)	CUM (2016/12/01~2017/08/31)
Runs (N)	7	26	7	26
Mean (U/gHb)	11.3	11.4	2.8	2.6
SD	1.0	0.6	0.3	0.2
CV (%)	8.8	5.3	10.7	7.7
Target Value (U/gHb)	12.3	12.3	2.8	2.8
Total Error (%)	25.8	17.8	21.4	22.5
TEa (%)	20	20	20	20
$\sigma$	1.3	2.4	1.9	1.7

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

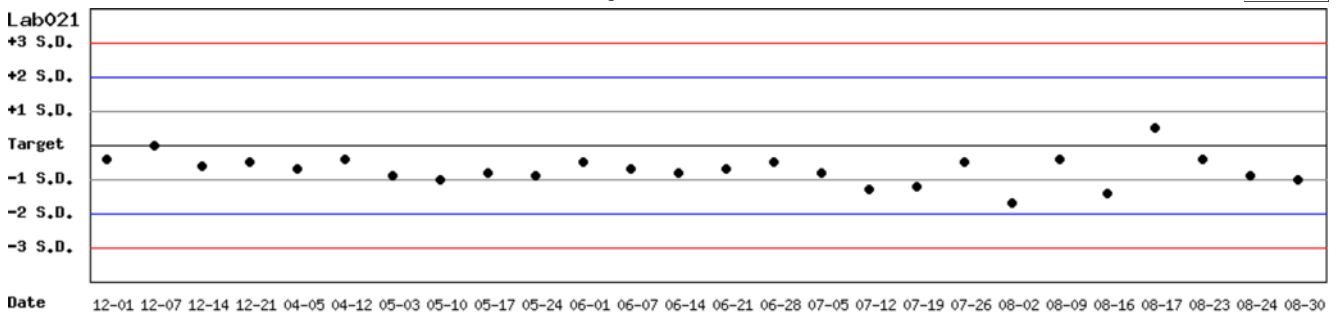
Month : 2017 08 [Change](#) ; Cumulative : from 2016 12 01 to 2017 08 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-12-01 to 2017-08-31 ; Target : 12.3 ; SD : 1.30

Lab021



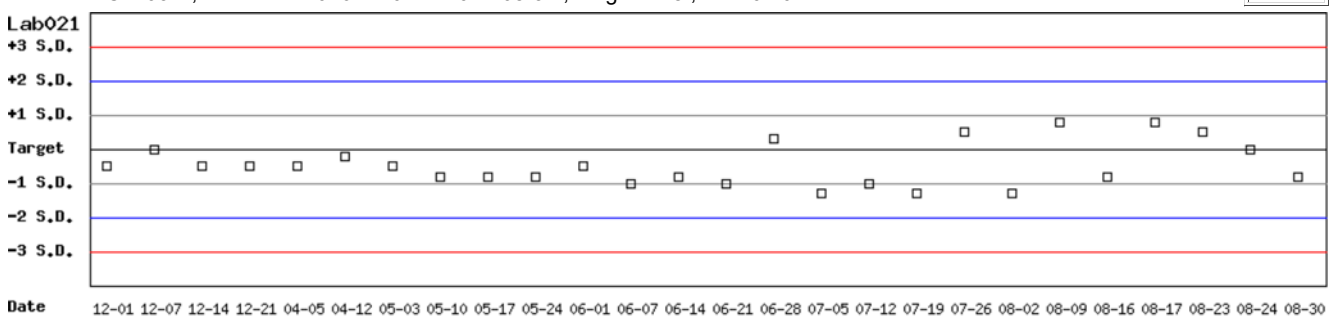
Month : 2017 08 [Change](#) ; Cumulative : from 2016 12 01 to 2017 08 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2016-12-01 to 2017-08-31 ; Target : 2.8 ; SD : 0.40

Lab021



Month : 2017 08 [Change](#) ; Cumulative : from 2016 12 01 to 2017 08 31 [Change](#)

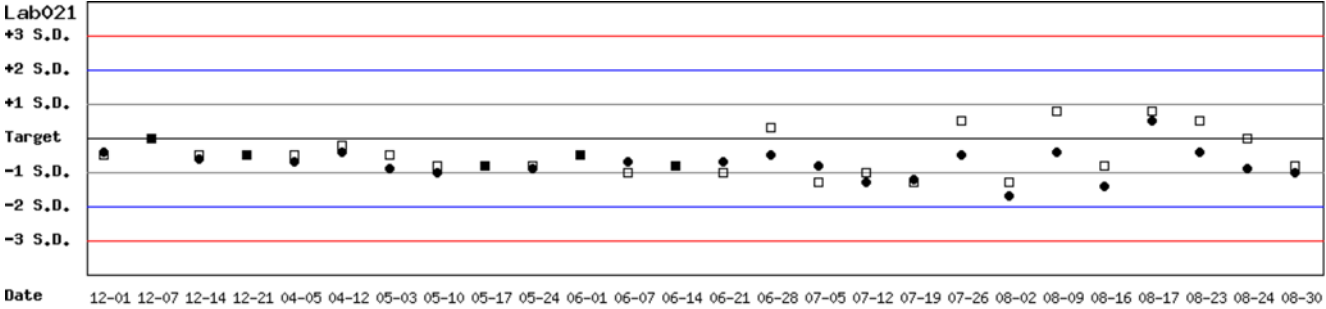
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2016-12-01 to 2017-08-31 ; Target : 12.3 ; SD : 1.30 ( ● )

Lot No.: AC1203D ; Duration : 2016-12-01 to 2017-08-31 ; Target : 2.8 ; SD : 0.40 ( □ )

Lab021



Month : 2017 08  ; Cumulative : from 2016 12 01 to 2017 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 : 2017 08 Change

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="#">Lab021</a>	2	12.3	11.3	7	1.0	8.8	25.8	20	1.3	2.8	2.8	7	0.3	10.7	21.4	20	1.9
<a href="#">Lab037</a>	2	12.6	12.5	4	0.6	4.8	10.4	20	4.0	3.0	2.9	4	0.2	6.9	17.1	20	2.4
Total	-	-	11.8	11	1.0	8.5	-	-	-	-	2.8	11	0.3	10.7	-	-	-

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

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

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

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### Cumulative

Cumulative : from 2014 02 01 to 2017 08 31 Change

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	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
<a href="#">Lab019</a>	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
<a href="#">Lab020</a>	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
<a href="#">Lab021</a>	2	12.3	13.1	110	1.3	9.9	26.4	20	1.4	2.8	3.1	110	0.4	12.9	36.5	20	0.7
<a href="#">Lab022</a>	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
<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	11.4	192	1.8	15.8	38.9	20	0.8	2.9	2.7	192	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	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
<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	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
<a href="#">Lab033</a>	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
<a href="#">Lab034</a>	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
<a href="#">Lab035</a>	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
<a href="#">Lab037</a>	2	12.6	12.3	87	1.1	8.9	20.3	20	2.0	3.0	2.9	87	0.4	13.8	30.9	20	1.2
<a href="#">Lab038</a>	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
<a href="#">Lab040</a>	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
<a href="#">Lab041</a>	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	2181	1.6	13.3	-	-	-	-	2.9	2181	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 (2017/08)								CUM (2014/02/01~2017/08/31)							
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	10.6	-	0	-	-	-	20	-	10.6	10.9	113	1.3	11.9	26.7	20	1.4
<a href="#">Lab019</a>	2	12.1	-	0	-	-	-	20	-	12.1	12.1	174	1.1	9.1	18.2	20	2.2
<a href="#">Lab020</a>	2	11.3	-	0	-	-	-	20	-	11.3	11.6	27	1.3	11.2	25.1	20	1.5
<a href="#">Lab021</a>	2	12.3	11.3	7	1.0	8.8	25.8	20	1.3	12.3	13.1	110	1.3	9.9	26.4	20	1.4
<a href="#">Lab022</a>	2	11.3	-	0	-	-	-	20	-	11.3	11.4	76	1.1	9.6	20.2	20	2.0
<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	11.4	192	1.8	15.8	38.9	20	0.8
<a href="#">Lab028</a>	2	12.8	-	0	-	-	-	20	-	12.8	13.4	374	1.3	9.7	24.1	20	1.6
<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	13.2	-	0	-	-	-	20	-	13.2	11.5	222	1.9	16.5	45.9	20	0.4
<a href="#">Lab033</a>	2	11.6	-	0	-	-	-	20	-	11.6	11.9	163	1.0	8.4	19.4	20	2.1
<a href="#">Lab034</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.3	94	0.7	5.7	15.3	20	2.8
<a href="#">Lab035</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.4	55	0.7	5.6	14.4	20	3.0
<a href="#">Lab037</a>	2	12.6	12.5	4	0.6	4.8	10.4	20	4.0	12.6	12.3	87	1.1	8.9	20.3	20	2.0
<a href="#">Lab038</a>	2	12.8	-	0	-	-	-	20	-	12.8	12.7	60	1.0	7.9	16.5	20	2.4
<a href="#">Lab040</a>	2	12.8	-	0	-	-	-	20	-	12.8	11.9	23	0.9	7.6	22.2	20	1.7
<a href="#">Lab041</a>	2	12.8	-	0	-	-	-	20	-	12.8	11.2	16	1.4	12.5	37.5	20	0.6
<b>Total</b>	-	-	11.8	11	1.0	8.5	-	-	-	-	12.0	2181	1.6	13.3	-	-	-

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

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

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

Month : 2017 ▼ 08 ▼ Change

Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2017 ▼ 08 ▼ 31 ▼ Change

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#### Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2017/08)								CUM (2014/02/01~2017/08/31)							
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	4.1	-	0	-	-	-	20	-	4.1	2.6	113	0.9	34.6	105.8	20	-0.5
<a href="#">Lab019</a>	2	2.8	-	0	-	-	-	20	-	2.8	2.8	174	0.4	14.3	28.6	20	1.4
<a href="#">Lab020</a>	2	2.6	-	0	-	-	-	20	-	2.6	2.7	27	0.4	14.8	33.5	20	1.1
<a href="#">Lab021</a>	2	2.8	2.8	7	0.3	10.7	21.4	20	1.9	2.8	3.1	110	0.4	12.9	36.5	20	0.7
<a href="#">Lab022</a>	2	2.8	-	0	-	-	-	20	-	2.8	2.8	76	0.4	14.3	28.6	20	1.4
<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	192	0.5	18.5	43.9	20	0.7
<a href="#">Lab028</a>	2	2.9	-	0	-	-	-	20	-	2.9	3.2	374	0.5	15.6	41.6	20	0.6
<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	5.4	-	0	-	-	-	20	-	5.4	2.7	222	0.5	18.5	87.0	20	-1.6
<a href="#">Lab033</a>	2	2.8	-	0	-	-	-	20	-	2.8	2.9	163	0.3	10.3	24.3	20	1.6
<a href="#">Lab034</a>	2	2.9	-	0	-	-	-	20	-	2.9	3.0	94	0.3	10.0	23.4	20	1.7
<a href="#">Lab035</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.8	55	0.3	10.7	24.9	20	1.5
<a href="#">Lab037</a>	2	3.0	2.9	4	0.2	6.9	17.1	20	2.4	3.0	2.9	87	0.4	13.8	30.9	20	1.2
<a href="#">Lab038</a>	2	2.9	-	0	-	-	-	20	-	2.9	3.2	60	0.5	15.6	41.6	20	0.6
<a href="#">Lab040</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.7	23	0.4	14.8	36.5	20	0.9
<a href="#">Lab041</a>	2	2.9	-	0	-	-	-	20	-	2.9	2.8	16	0.3	10.7	24.9	20	1.5
<b>Total</b>	-	-	2.8	11	0.3	10.7	-	-	-	-	2.9	2181	0.6	20.7	-	-	-

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

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

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

Month : 2017 ▼ 08 ▼ Change

Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2017 ▼ 08 ▼ 31 ▼ Change

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Reagent Kit	Reagent Code
AMP	2