

# 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 (2018/09)	CUM (2017/08/01~2018/09/30)	Month (2018/09)	CUM (2017/08/01~2018/09/30)
Runs (N)	4	26	4	26
Mean (U/gHb)	16.1	14.0	5.6	4.0
SD	0.2	2.3	0.2	1.3
CV (%)	1.2	16.4	3.6	32.5
Target Value (U/gHb)	14.4	14.4	5.8	5.8
Total Error (%)	14.3	35.6	10.6	96.0
TEa (%)	20	20	20	20
$\sigma$	>6	1.1	4.6	-0.3

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

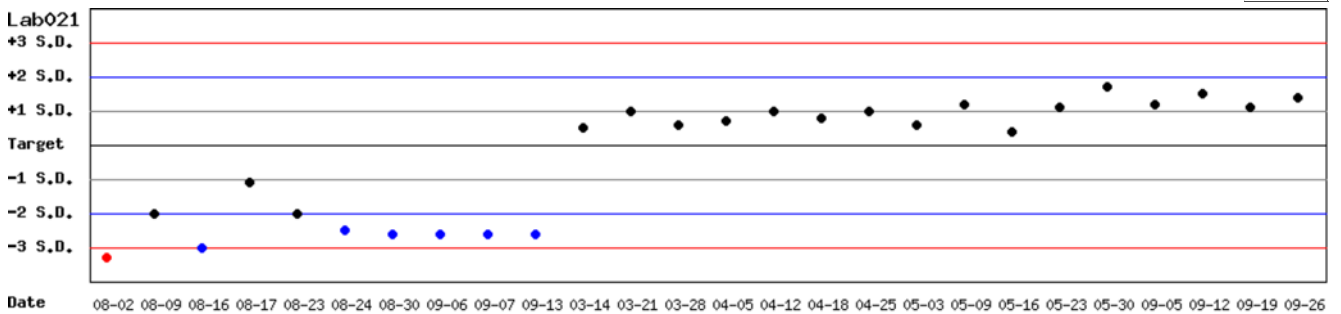
Month : 2018 09 [Change](#) ; Cumulative : from 2017 08 01 to 2018 09 30 [Change](#)

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## Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2017-08-01 to 2018-09-30 ; Target : 14.4 ; SD : 1.30

Lab021



Month : 2018 09 [Change](#) ; Cumulative : from 2017 08 01 to 2018 09 30 [Change](#)

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## Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2017-08-01 to 2018-09-30 ; Target : 5.8 ; SD : 0.40

Lab021



Month : 2018 09 [Change](#) ; Cumulative : from 2017 08 01 to 2018 09 30 [Change](#)

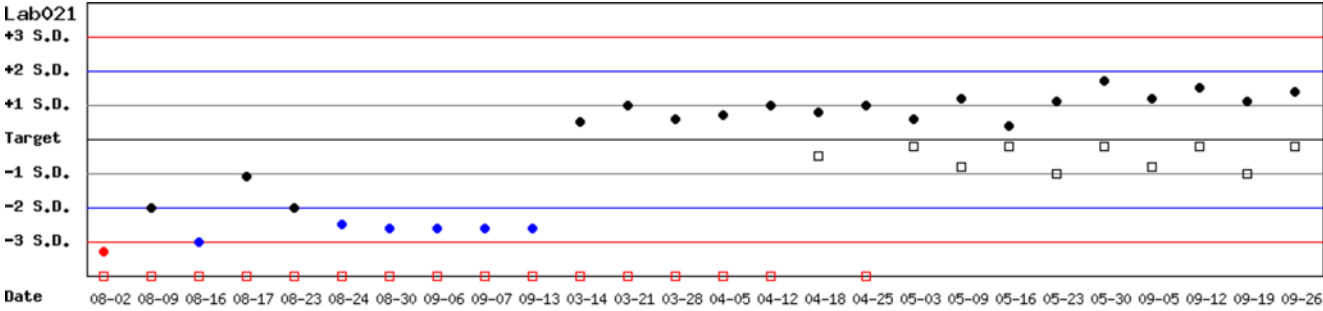
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## Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2017-08-01 to 2018-09-30 ; Target : 14.4 ; SD : 1.30 ( ● )

Lot No.: AC1203D ; Duration : 2017-08-01 to 2018-09-30 ; Target : 5.8 ; SD : 0.40 ( □ )

Lab021



Month : 2018 09 Change ; Cumulative : from 2017 08 01 to 2018 09 30 Change

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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="#">Lab021</a>	5	14.4	16.1	4	0.2	1.2	14.3	20	>6	5.8	5.6	4	0.2	3.6	10.6	20	4.6
<a href="#">Lab022</a>	5	14.4	14.7	1	-	-	-	20	-	3.3	3.4	1	-	-	-	20	-
<a href="#">Lab028</a>	5	14.2	14.6	11	1.2	8.2	19.3	20	2.1	3.3	3.4	11	0.3	8.8	20.7	20	1.9
Total	-	-	15.0	16	1.2	8.0	-	-	-	-	3.9	16	1.0	25.6	-	-	-

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="#">Lab019</a>	5	14.8	14.9	30	0.7	4.7	10.1	20	4.1	3.4	3.6	30	0.6	16.7	39.2	20	0.8
<a href="#">Lab020</a>	5	14.2	15.7	29	0.8	5.1	20.8	20	1.9	3.3	3.5	29	0.2	5.7	17.5	20	2.4
<a href="#">Lab021</a>	5	14.4	15.7	16	0.5	3.2	15.4	20	3.4	5.8	4.8	16	1.1	22.9	63.1	20	0.1
<a href="#">Lab022</a>	5	14.4	14.6	19	0.5	3.4	8.2	20	5.5	3.3	3.3	19	0.2	6.1	12.1	20	3.3
<a href="#">Lab026</a>	5	14.6	14.7	16	0.5	3.4	7.5	36	>6	3.2	3.2	16	0.1	3.1	6.3	36	>6
<a href="#">Lab028</a>	5	14.2	15.0	113	0.9	6.0	17.6	20	2.4	3.3	3.6	113	0.2	5.6	20.2	20	1.9
<a href="#">Lab037</a>	5	12.6	15.7	15	0.5	3.2	31.0	20	-1.4	3.0	3.5	15	0.1	2.9	22.4	20	1.1
<a href="#">Lab041</a>	5	12.8	12.9	1	-	-	-	20	-	2.9	3.2	1	-	-	-	20	-
Total	-	-	15.1	239	0.8	5.3	-	-	-	-	3.6	239	0.5	13.9	-	-	-

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
Medicon	5

## Peer Group Statistics (Table 2)

Select LotNo :

Select Reagent Kit :

### Control N Month vs. Cumulative

		Control N (Lot No.: AC1203N)															
		Month (2018/09)								CUM (2014/02/01~2018/09/30)							
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="#">Lab019</a>	5	14.8	-	0	-	-	-	20	-	14.8	14.9	30	0.7	4.7	10.1	20	4.1
<a href="#">Lab020</a>	5	14.2	-	0	-	-	-	20	-	14.2	15.7	29	0.8	5.1	20.8	20	1.9
<a href="#">Lab021</a>	5	14.4	16.1	4	0.2	1.2	14.3	20	>6	14.4	15.7	16	0.5	3.2	15.4	20	3.4
<a href="#">Lab022</a>	5	14.4	14.7	1	-	-	-	20	-	14.4	14.6	19	0.5	3.4	8.2	20	5.5
<a href="#">Lab026</a>	5	14.6	-	0	-	-	-	36	-	14.6	14.7	16	0.5	3.4	7.5	36	>6
<a href="#">Lab028</a>	5	14.2	14.6	11	1.2	8.2	19.3	20	2.1	14.2	15.0	113	0.9	6.0	17.6	20	2.4
<a href="#">Lab037</a>	5	12.6	-	0	-	-	-	20	-	12.6	15.7	15	0.5	3.2	31.0	20	-1.4
<a href="#">Lab041</a>	5	12.8	-	0	-	-	-	20	-	12.8	12.9	1	-	-	-	20	-
<b>Total</b>	-	-	15.0	16	1.2	8.0	-	-	-	-	15.1	239	0.8	5.3	-	-	-

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 (2018/09)								CUM (2014/02/01~2018/09/30)							
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="#">Lab019</a>	5	3.4	-	0	-	-	-	20	-	3.4	3.6	30	0.6	16.7	39.2	20	0.8
<a href="#">Lab020</a>	5	3.3	-	0	-	-	-	20	-	3.3	3.5	29	0.2	5.7	17.5	20	2.4
<a href="#">Lab021</a>	5	5.8	5.6	4	0.2	3.6	10.6	20	4.6	5.8	4.8	16	1.1	22.9	63.1	20	0.1
<a href="#">Lab022</a>	5	3.3	3.4	1	-	-	-	20	-	3.3	3.3	19	0.2	6.1	12.1	20	3.3
<a href="#">Lab026</a>	5	3.2	-	0	-	-	-	36	-	3.2	3.2	16	0.1	3.1	6.3	36	>6
<a href="#">Lab028</a>	5	3.3	3.4	11	0.3	8.8	20.7	20	1.9	3.3	3.6	113	0.2	5.6	20.2	20	1.9
<a href="#">Lab037</a>	5	3.0	-	0	-	-	-	20	-	3.0	3.5	15	0.1	2.9	22.4	20	1.1
<a href="#">Lab041</a>	5	2.9	-	0	-	-	-	20	-	2.9	3.2	1	-	-	-	20	-
<b>Total</b>	-	-	3.9	16	1.0	25.6	-	-	-	-	3.6	239	0.5	13.9	-	-	-

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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Reagent Kit	Reagent Code
Medicon	5