

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

Select LotNo :

## Lab026

QC Control Lot No.	Control N		Control D	
	AE0909N		AE0909D	
Duration of the Analyzing	Month (2021/03)	CUM (2021/01/27~2021/03/30)	Month (2021/03)	CUM (2021/01/27~2021/03/30)
Runs (N)	10	26	10	26
Mean (U/gHb)	12.9	12.9	4.9	4.9
SD	0.1	0.1	0.1	0.1
CV (%)	0.8	0.8	2.0	2.0
Target Value (U/gHb)	15.9	15.9	5.8	5.8
Total Error (%)	20.4	20.4	19.6	19.6
TEa (%)	20	20	20	20
$\sigma$	1.4	1.4	2.2	2.2

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

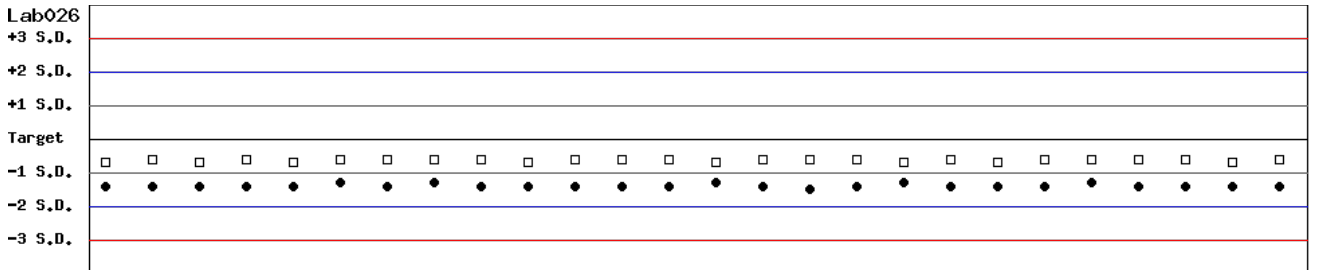
Month :    ; Cumulative : from    to

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## Control N and Control D SDI QC Chart

Lot No.: AE0909N ; Duration : 2021-01-27 to 2021-03-30 ; Target : 15.9 ; SD : 2.20 (●)

Lot No.: AE0909D ; Duration : 2021-01-27 to 2021-03-30 ; Target : 5.8 ; SD : 1.40 (□)



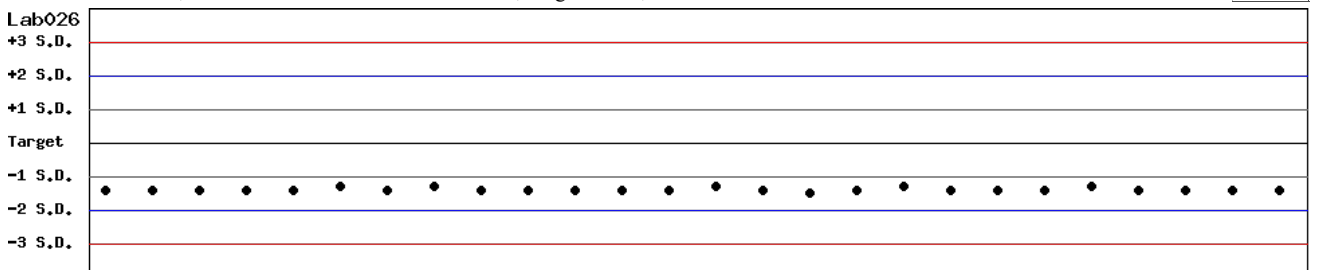
Date 01-27 01-28 01-29 02-01 02-02 02-03 02-04 02-05 02-08 02-09 02-11 02-15 02-16 02-18 02-19 02-23 03-02 03-04 03-09 03-11 03-16 03-16 03-18 03-23 03-25 03-30

Month :    ; Cumulative : from    to

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## Control N SDI QC Chart

Lot No.: AE0909N ; Duration : 2021-01-27 to 2021-03-30 ; Target : 15.9 ; SD : 2.20



Date 01-27 01-28 01-29 02-01 02-02 02-03 02-04 02-05 02-08 02-09 02-11 02-15 02-16 02-18 02-19 02-23 03-02 03-04 03-09 03-11 03-16 03-16 03-18 03-23 03-25 03-30

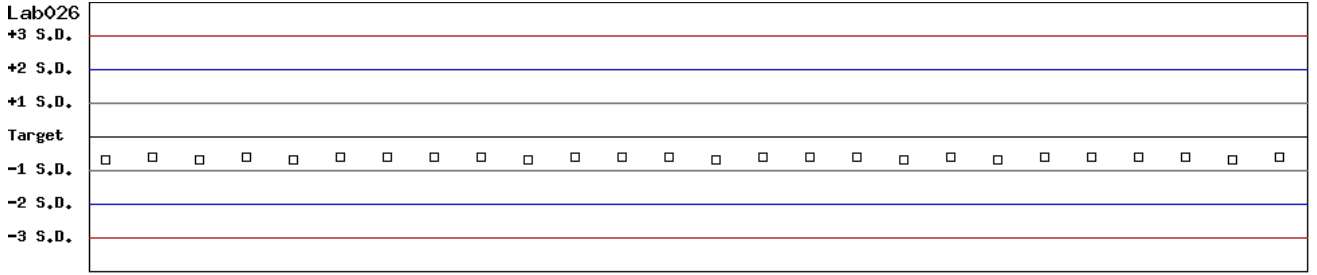
Month :    ; Cumulative : from    to

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**Control D SDI QC Chart**

Lot No.: AE0909D ; Duration : 2021-01-27 to 2021-03-30 ; Target : 5.8 ; SD : 1.40

Lab026



**Date** 01-27 01-28 01-29 02-01 02-02 02-03 02-04 02-05 02-08 02-09 02-11 02-15 02-16 02-18 02-19 02-23 03-02 03-04 03-09 03-11 03-16 03-16 03-18 03-23 03-25 03-30

Month :    ; Cumulative : from    to

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## Peer Group Statistics (Table 1)

Select LotNo : AE0909N (2016-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 1

### Monthly

Month : 2021 03 Change

UnitID <span>↑</span>	Reagent Kit (Code) <span>↑</span>	Control N (Lot No.: AE0909N)								Control D (Lot No.: AE0909D)							
		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="#">Lab026</a>	5	15.9	12.9	10	0.1	0.8	20.4	20	1.4	5.8	4.9	10	0.1	2.0	19.6	20	2.2
Total	-	-	12.9	10	0.1	0.8	-	-	-	-	4.9	10	0.1	2.0	-	-	-

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

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

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

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### Cumulative

Cumulative : from 2016 02 01 to 2021 03 31 Change

UnitID <span>↑</span>	Reagent Kit (Code) <span>↑</span>	Control N (Lot No.: AE0909N)								Control D (Lot No.: AE0909D)							
		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>	5	14.2	14.9	142	1.2	8.1	21.0	20	1.9	5.5	5.5	142	0.3	5.5	10.9	20	3.6
<a href="#">Lab019</a>	5	15.3	15.2	111	0.3	2.0	4.6	20	>6	5.3	5.3	111	0.2	3.8	7.5	20	5.3
<a href="#">Lab020</a>	5	14.4	15.2	28	0.5	3.3	12.1	20	4.4	5.8	5.3	28	0.3	5.7	19.9	20	2.0
<a href="#">Lab026</a>	5	15.9	13.4	470	1.2	9.0	33.6	20	0.5	5.8	5.1	470	0.3	5.9	23.8	20	1.3
<a href="#">Lab027</a>	5	15.5	15.5	107	1.3	8.4	16.8	20	2.4	5.4	5.6	107	0.5	8.9	21.6	20	1.8
<a href="#">Lab028</a>	5	14.8	14.5	134	0.7	4.8	11.7	20	3.7	4.8	5.6	134	0.3	5.4	27.4	20	0.6
<a href="#">Lab032</a>	5	15.3	15.9	38	0.9	5.7	15.2	20	2.8	5.2	5.7	38	0.3	5.3	20.1	20	2.0
<a href="#">Lab033</a>	5	14.4	14.9	49	0.6	4.0	11.5	20	4.1	5.8	5.2	49	0.2	3.8	18.0	20	2.5
<a href="#">Lab034</a>	5	15.5	14.7	96	0.9	6.1	17.4	20	2.4	4.8	5.0	96	0.4	8.0	20.2	20	2.0
<a href="#">Lab037</a>	5	14.9	15.2	30	0.8	5.3	12.5	20	3.4	5.4	5.5	30	0.3	5.5	12.8	20	3.3
<a href="#">Lab040</a>	5	14.4	13.2	40	0.7	5.3	18.9	20	2.2	5.8	4.7	40	0.3	6.4	31.7	20	0.2
<a href="#">Lab043</a>	5	11.5	13.0	88	0.9	6.9	26.9	20	1.0	4.5	4.8	88	0.4	8.3	23.3	20	1.6
Total	-	-	14.3	1333	1.3	9.1	-	-	-	-	5.2	1333	0.4	7.7	-	-	-

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
Medicon	5

## Peer Group Statistics (Table 2)

Select LotNo : AE0909N (2016-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

[Print Table 2](#)

### Control N Month vs. Cumulative

		Control N (Lot No.: AE0909N)															
		Month (2021/03)								CUM (2016/02/01~2021/03/31)							
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="#">Lab018</a>	5	14.2	-	0	-	-	-	20	-	14.2	14.9	142	1.2	8.1	21.0	20	1.9
<a href="#">Lab019</a>	5	15.3	-	0	-	-	-	20	-	15.3	15.2	111	0.3	2.0	4.6	20	>6
<a href="#">Lab020</a>	5	14.4	-	0	-	-	-	20	-	14.4	15.2	28	0.5	3.3	12.1	20	4.4
<a href="#">Lab026</a>	5	15.9	12.9	10	0.1	0.8	20.4	20	1.4	15.9	13.4	470	1.2	9.0	33.6	20	0.5
<a href="#">Lab027</a>	5	15.5	-	0	-	-	-	20	-	15.5	15.5	107	1.3	8.4	16.8	20	2.4
<a href="#">Lab028</a>	5	14.8	-	0	-	-	-	20	-	14.8	14.5	134	0.7	4.8	11.7	20	3.7
<a href="#">Lab032</a>	5	15.3	-	0	-	-	-	20	-	15.3	15.9	38	0.9	5.7	15.2	20	2.8
<a href="#">Lab033</a>	5	14.4	-	0	-	-	-	20	-	14.4	14.9	49	0.6	4.0	11.5	20	4.1
<a href="#">Lab034</a>	5	15.5	-	0	-	-	-	20	-	15.5	14.7	96	0.9	6.1	17.4	20	2.4
<a href="#">Lab037</a>	5	14.9	-	0	-	-	-	20	-	14.9	15.2	30	0.8	5.3	12.5	20	3.4
<a href="#">Lab040</a>	5	14.4	-	0	-	-	-	20	-	14.4	13.2	40	0.7	5.3	18.9	20	2.2
<a href="#">Lab043</a>	5	11.5	-	0	-	-	-	20	-	11.5	13.0	88	0.9	6.9	26.9	20	1.0
Total	-	-	12.9	10	0.1	0.8	-	-	-	-	14.3	1333	1.3	9.1	-	-	-

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

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

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

Month : 2021 03 Change

Cumulative : from 2016 02 01 to 2021 03 31 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AE0909D)															
		Month (2021/03)								CUM (2016/02/01~2021/03/31)							
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="#">Lab018</a>	5	5.5	-	0	-	-	-	20	-	5.5	5.5	142	0.3	5.5	10.9	20	3.6
<a href="#">Lab019</a>	5	5.3	-	0	-	-	-	20	-	5.3	5.3	111	0.2	3.8	7.5	20	5.3
<a href="#">Lab020</a>	5	5.8	-	0	-	-	-	20	-	5.8	5.3	28	0.3	5.7	19.9	20	2.0
<a href="#">Lab026</a>	5	5.8	4.9	10	0.1	2.0	19.6	20	2.2	5.8	5.1	470	0.3	5.9	23.8	20	1.3
<a href="#">Lab027</a>	5	5.4	-	0	-	-	-	20	-	5.4	5.6	107	0.5	8.9	21.6	20	1.8
<a href="#">Lab028</a>	5	4.8	-	0	-	-	-	20	-	4.8	5.6	134	0.3	5.4	27.4	20	0.6
<a href="#">Lab032</a>	5	5.2	-	0	-	-	-	20	-	5.2	5.7	38	0.3	5.3	20.1	20	2.0
<a href="#">Lab033</a>	5	5.8	-	0	-	-	-	20	-	5.8	5.2	49	0.2	3.8	18.0	20	2.5
<a href="#">Lab034</a>	5	4.8	-	0	-	-	-	20	-	4.8	5.0	96	0.4	8.0	20.2	20	2.0
<a href="#">Lab037</a>	5	5.4	-	0	-	-	-	20	-	5.4	5.5	30	0.3	5.5	12.8	20	3.3
<a href="#">Lab040</a>	5	5.8	-	0	-	-	-	20	-	5.8	4.7	40	0.3	6.4	31.7	20	0.2
<a href="#">Lab043</a>	5	4.5	-	0	-	-	-	20	-	4.5	4.8	88	0.4	8.3	23.3	20	1.6
Total	-	-	4.9	10	0.1	2.0	-	-	-	-	5.2	1333	0.4	7.7	-	-	-

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

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

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

Month : 2021 03 Change

Cumulative : from 2016 02 01 to 2021 03 31 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5