

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

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

[Print Table](#)

## Lab026

QC Control Lot No.	Control N		Control D	
	AE0909N		AE0909D	
Duration of the Analyzing	Month (2023/05)	CUM (2023/03/17~2023/05/30)	Month (2023/05)	CUM (2023/03/17~2023/05/30)
Runs (N)	11	26	11	26
Mean (U/gHb)	12.8	12.8	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 (%)	21.1	21.1	19.6	19.6
TEa (%)	20	20	20	20
$\sigma$	0.6	0.6	2.2	2.2

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

Month : 2023 05 Change ; Cumulative : from 2023 03 17 to 2023 05 30 Change

[TOP](#)

## Control N and Control D SDI QC Chart

Lot No.: AE0909N ; Duration : 2023-03-17 to 2023-05-30 ; Target : 15.9 ; SD : 2.20 (●)

Lot No.: AE0909D ; Duration : 2023-03-17 to 2023-05-30 ; Target : 5.8 ; SD : 1.40 (□)

Lab026



Date 03-17 03-20 03-21 03-23 03-28 03-30 04-04 04-11 04-13 04-14 04-18 04-19 04-20 04-25 04-27 05-02 05-04 05-09 05-11 05-15 05-16 05-18 05-23 05-25 05-29 05-30

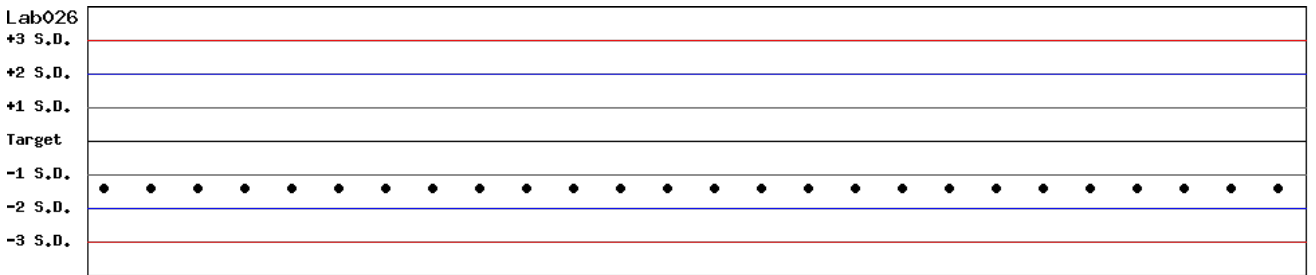
Month : 2023 05 Change ; Cumulative : from 2023 03 17 to 2023 05 30 Change

[TOP](#)

## Control N SDI QC Chart

Lot No.: AE0909N ; Duration : 2023-03-17 to 2023-05-30 ; Target : 15.9 ; SD : 2.20

Lab026



Date 03-17 03-20 03-21 03-23 03-28 03-30 04-04 04-11 04-13 04-14 04-18 04-19 04-20 04-25 04-27 05-02 05-04 05-09 05-11 05-15 05-16 05-18 05-23 05-25 05-29 05-30

Month : 2023 05 Change ; Cumulative : from 2023 03 17 to 2023 05 30 Change

[TOP](#)

# Control D SDI QC Chart

Lot No.: AE0909D ; Duration : 2023-03-17 to 2023-05-30 ; Target : 5.8 ; SD : 1.40

Lab026



Date 03-17 03-20 03-21 03-23 03-28 03-30 04-04 04-11 04-13 04-14 04-18 04-19 04-20 04-25 04-27 05-02 05-04 05-09 05-11 05-15 05-16 05-18 05-23 05-25 05-29 05-30

Month : 2023 v 05 v Change ; Cumulative : from 2023 v 03 v 17 v to 2023 v 05 v 30 v Change

[TOP](#)

# Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon

## Monthly

Month : 2023  05

		Control N (Lot No.: AE0909N)								Control D (Lot No.: AE0909D)							
UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	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	12.8	11	0.1	0.8	21.1	20	0.6	5.8	4.9	11	0.1	2.0	19.6	20	2.2
Total	-	-	12.8	11	0.1	0.8	-	-	-	-	4.9	11	0.1	2.0	-	-	-

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

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

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

[\[TOP\]](#)

## Cumulative

Cumulative : from 2016  02  01  to 2023  05  31

		Control N (Lot No.: AE0909N)								Control D (Lot No.: AE0909D)							
UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	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	16.2	15.2	173	1.2	7.9	22.0	20	1.8	5.5	5.5	173	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	13.3	672	1.0	7.5	31.4	20	0.5	5.8	5.0	672	0.3	6.0	25.8	20	1.0
<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	-	-	14.1	1566	1.4	9.9	-	-	-	-	5.2	1566	0.4	7.7	-	-	-

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

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

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

[\[TOP\]](#)

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 (2023/05)										CUM (2016/02/01~2023/05/31)							
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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	16.2	-	0	-	-	-	20	-	16.2	15.2	173	1.2	7.9	22.0	20	1.8
<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	12.8	11	0.1	0.8	21.1	20	0.6	15.9	13.3	672	1.0	7.5	31.4	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
<b>Total</b>	-	-	12.8	11	0.1	0.8	-	-	-	-	14.1	1566	1.4	9.9	-	-	-

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

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

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

Month : 2023 05 Change

Cumulative : from 2016 02 01 to 2023 05 31 Change

[TOP](#)

### Control D Month vs. Cumulative

Control D (Lot No.: AE0909D)																	
Month (2023/05)										CUM (2016/02/01~2023/05/31)							
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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	173	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	11	0.1	2.0	19.6	20	2.2	5.8	5.0	672	0.3	6.0	25.8	20	1.0
<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
<b>Total</b>	-	-	4.9	11	0.1	2.0	-	-	-	-	5.2	1566	0.4	7.7	-	-	-

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

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

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

Month : 2023 05 Change

Cumulative : from 2016 02 01 to 2023 05 31 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5