

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

Select LotNo :

## Lab018

QC Control Lot No.	Control N		Control D	
	BA1116N		BA1116D	
Duration of the Analyzing	Month (2023/03)	CUM (2022/09/16~2023/03/31)	Month (2023/03)	CUM (2022/09/16~2023/03/31)
Runs (N)	6	26	6	26
Mean (U/gHb)	13.8	13.7	4.4	4.4
SD	0.4	0.4	0.1	0.1
CV (%)	2.9	2.9	2.3	2.3
Target Value (U/gHb)	13.6	13.6	4.3	4.3
Total Error (%)	7.3	6.6	6.9	6.9
TEa (%)	20	20	20	20
$\sigma$	>6	>6	>6	>6

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

Month :    ; Cumulative : from    to

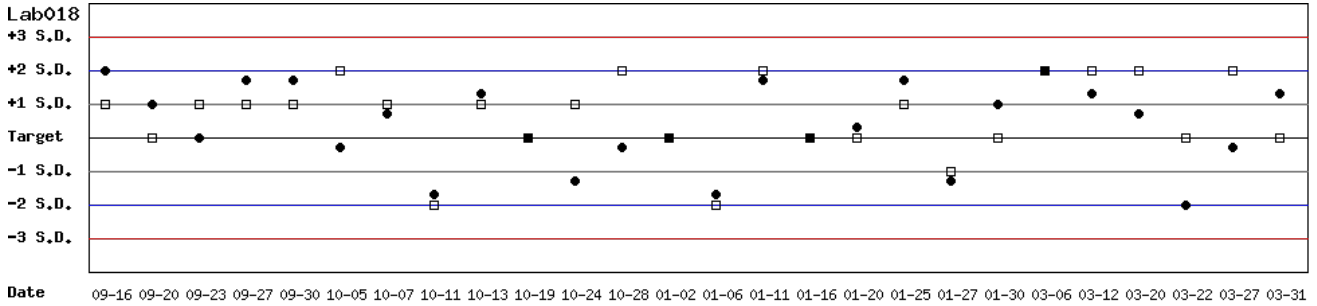
[\[TOP\]](#)

## Control N and Control D SDI QC Chart

Lot No.: BA1116N ; Duration : 2022-09-16 to 2023-03-31 ; Target : 13.6 ; SD : 0.30 (●)

Lot No.: BA1116D ; Duration : 2022-09-16 to 2023-03-31 ; Target : 4.3 ; SD : 0.10 (□)

Lab018



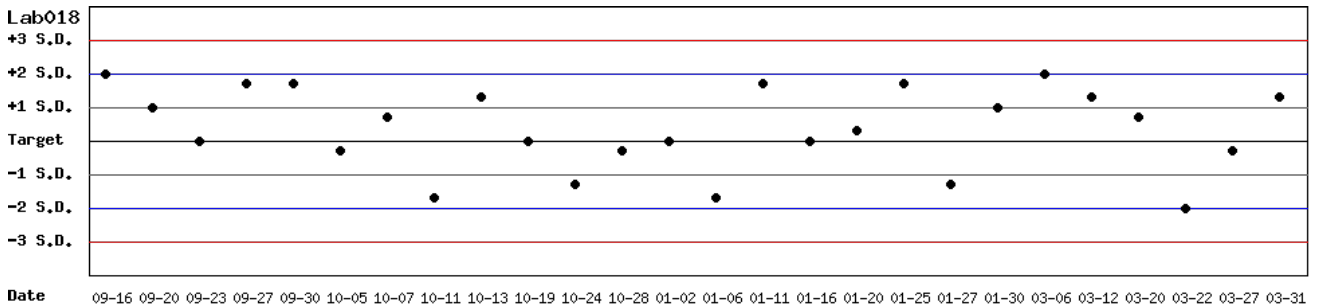
Month :    ; Cumulative : from    to

[\[TOP\]](#)

## Control N SDI QC Chart

Lot No.: BA1116N ; Duration : 2022-09-16 to 2023-03-31 ; Target : 13.6 ; SD : 0.30

Lab018



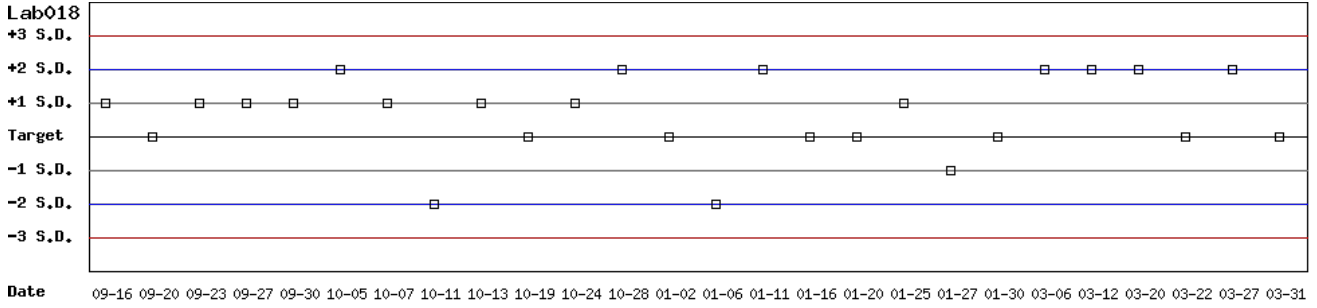
Month :    ; Cumulative : from    to

[\[TOP\]](#)

## Control D SDI QC Chart

Lot No.: BA1116D ; Duration : 2022-09-16 to 2023-03-31 ; Target : 4.3 ; SD : 0.10

Lab018



Month :    ; Cumulative : from    to

[TOP](#)

# Peer Group Statistics (Table 1)

Select LotNo : BA1116N (2022-04-26 ~ 2100-12-31)

Select Reagent Kit : 5 - Medicon

## Monthly

Month : 2023  03

UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	Control N (Lot No.: BA1116N)								Control D (Lot No.: BA1116D)							
		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	13.6	13.8	6	0.4	2.9	7.3	20	>6	4.3	4.4	6	0.1	2.3	6.9	20	>6
<a href="#">Lab027</a>	5	12.8	14.1	4	0.5	3.5	17.2	20	2.8	4.2	4.5	4	0.3	6.7	20.5	20	1.9
Total	-	-	13.9	10	0.5	3.6	-	-	-	-	4.5	10	0.2	4.4	-	-	-

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

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

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

[\[TOP\]](#)

## Cumulative

Cumulative : from 2022  06  01  to 2023  03  31

UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	Control N (Lot No.: BA1116N)								Control D (Lot No.: BA1116D)							
		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	13.6	13.6	62	0.3	2.2	4.4	20	>6	4.3	4.3	62	0.1	2.3	4.7	20	>6
<a href="#">Lab027</a>	5	12.8	14.9	43	0.7	4.7	25.8	20	0.8	4.2	4.8	43	0.3	6.3	26.8	20	0.9
Total	-	-	14.1	105	0.8	5.7	-	-	-	-	4.5	105	0.3	6.7	-	-	-

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 : BA1116N (2022-04-26 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 2

### Control N Month vs. Cumulative

		Control N (Lot No.: BA1116N)															
		Month (2023/03)								CUM (2022/06/01~2023/03/31)							
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
<a href="#">Lab018</a>	5	13.6	13.8	6	0.4	2.9	7.3	20	>6	13.6	13.6	62	0.3	2.2	4.4	20	>6
<a href="#">Lab027</a>	5	12.8	14.1	4	0.5	3.5	17.2	20	2.8	12.8	14.9	43	0.7	4.7	25.8	20	0.8
Total	-	-	13.9	10	0.5	3.6	-	-	-	-	14.1	105	0.8	5.7	-	-	-

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

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

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

Month : 2023 ▼ 03 ▼ Change Cumulative : from 2022 ▼ 06 ▼ 01 ▼ to 2023 ▼ 03 ▼ 31 ▼ Change

[TOP](#)

### Control D Month vs. Cumulative

		Control D (Lot No.: BA1116D)															
		Month (2023/03)								CUM (2022/06/01~2023/03/31)							
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
<a href="#">Lab018</a>	5	4.3	4.4	6	0.1	2.3	6.9	20	>6	4.3	4.3	62	0.1	2.3	4.7	20	>6
<a href="#">Lab027</a>	5	4.2	4.5	4	0.3	6.7	20.5	20	1.9	4.2	4.8	43	0.3	6.3	26.8	20	0.9
Total	-	-	4.5	10	0.2	4.4	-	-	-	-	4.5	105	0.3	6.7	-	-	-

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

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

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

Month : 2023 ▼ 03 ▼ Change Cumulative : from 2022 ▼ 06 ▼ 01 ▼ to 2023 ▼ 03 ▼ 31 ▼ Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5