

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

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

## Lab027

	Control N		Control D	
QC Control Lot No.	BA1116N		BA1116D	
Duration of the Analyzing	Month (2022/11)	CUM (2022/06/03~2022/11/29)	Month (2022/11)	CUM (2022/06/03~2022/11/29)
Runs (N)	4	26	4	26
Mean (U/gHb)	15.5	15.0	4.9	4.8
SD	0.7	0.7	0.1	0.4
CV (%)	4.5	4.7	2.0	8.3
Target Value (U/gHb)	12.8	12.8	4.2	4.2
Total Error (%)	30.1	26.5	20.7	31.0
TEa (%)	20	20	20	20
$\sigma$	-0.2	0.6	1.7	0.7

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

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

$\sigma$  (Sigma) = [TEa% - Bias (%) ] / CV (%)

Month :    ; Cumulative : from    to

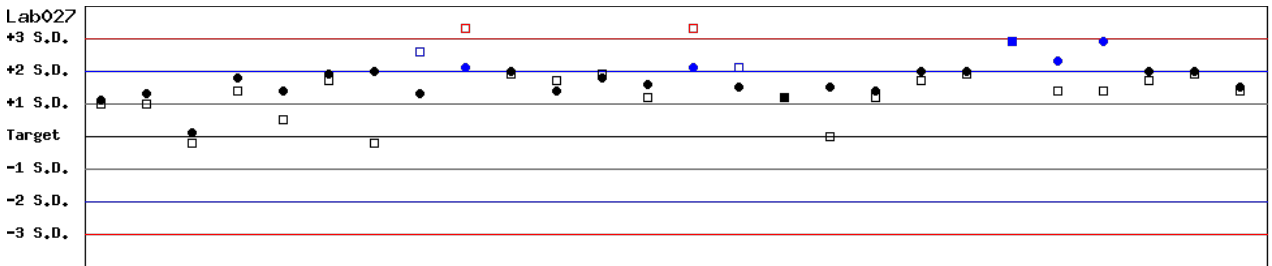
[\[TOP\]](#)

## Control N and Control D SDI QC Chart

Lot No.: BA1116N ; Duration : 2022-06-03 to 2022-11-29 ; Target : 12.8 ; SD : 1.28 ( ● )

Lot No.: BA1116D ; Duration : 2022-06-03 to 2022-11-29 ; Target : 4.2 ; SD : 0.42 ( □ )

Lab027



Date 06-03 06-10 06-17 06-24 07-01 07-08 07-15 07-22 07-29 08-05 08-12 08-19 08-26 09-02 09-09 09-16 09-23 09-30 10-06 10-13 10-20 10-27 11-03 11-10 11-17 11-24

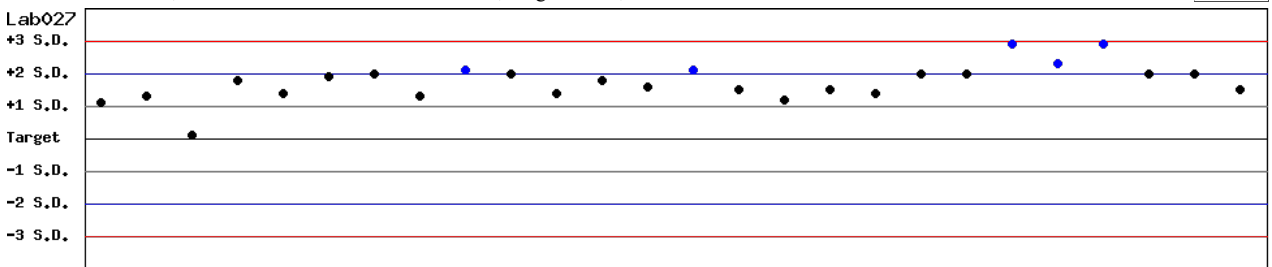
Month :    ; Cumulative : from    to

[\[TOP\]](#)

## Control N SDI QC Chart

Lot No.: BA1116N ; Duration : 2022-06-03 to 2022-11-29 ; Target : 12.8 ; SD : 1.28

Lab027



Date 06-03 06-10 06-17 06-24 07-01 07-08 07-15 07-22 07-29 08-05 08-12 08-19 08-26 09-02 09-09 09-16 09-23 09-30 10-06 10-13 10-20 10-27 11-03 11-10 11-17 11-24

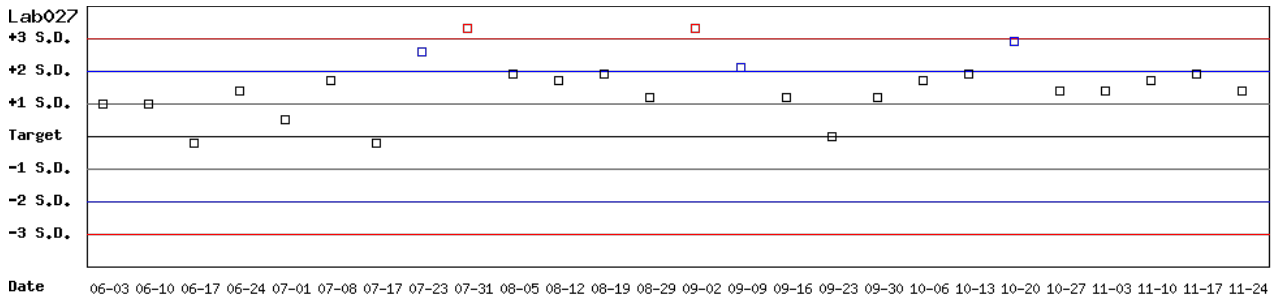
Month :    ; Cumulative : from    to

[\[TOP\]](#)

## Control D SDI QC Chart

Lot No.: BA1116D ; Duration : 2022-06-03 to 2022-11-29 ; Target : 4.2 ; SD : 0.42

Lab027



Month : 2022 ▾ 11 ▾ Change ; Cumulative : from 2022 ▾ 06 ▾ 03 ▾ to 2022 ▾ 11 ▾ 29 ▾ Change

[\[TOP\]](#)

# Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon

## Monthly

Month : 2022  11

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="#">Lab027</a>	5	12.8	15.5	4	0.7	4.5	30.1	20	-0.2	4.2	4.9	4	0.1	2.0	20.7	20	1.7
Total	-	-	15.5	4	0.7	4.5	-	-	-	-	4.9	4	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 2022  06  01  to 2022  11  30

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	48	0.3	2.2	4.4	20	>6	4.3	4.3	48	0.1	2.3	4.7	20	>6
<a href="#">Lab027</a>	5	12.8	15.0	26	0.7	4.7	26.5	20	0.6	4.2	4.8	26	0.4	8.3	31.0	20	0.7
Total	-	-	14.1	74	0.9	6.4	-	-	-	-	4.5	74	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 (2022/11)								CUM (2022/06/01~2022/11/30)							
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	-	0	-	-	-	20	-	13.6	13.6	48	0.3	2.2	4.4	20	>6
<a href="#">Lab027</a>	5	12.8	15.5	4	0.7	4.5	30.1	20	-0.2	12.8	15.0	26	0.7	4.7	26.5	20	0.6
Total	-	-	15.5	4	0.7	4.5	-	-	-	-	14.1	74	0.9	6.4	-	-	-

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

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

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

Month : 2022 11 Change    Cumulative : from 2022 06 01 to 2022 11 30 Change

[TOP](#)

### Control D Month vs. Cumulative

		Control D (Lot No.: BA1116D)															
		Month (2022/11)								CUM (2022/06/01~2022/11/30)							
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	-	0	-	-	-	20	-	4.3	4.3	48	0.1	2.3	4.7	20	>6
<a href="#">Lab027</a>	5	4.2	4.9	4	0.1	2.0	20.7	20	1.7	4.2	4.8	26	0.4	8.3	31.0	20	0.7
Total	-	-	4.9	4	0.1	2.0	-	-	-	-	4.5	74	0.3	6.7	-	-	-

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

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

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

Month : 2022 11 Change    Cumulative : from 2022 06 01 to 2022 11 30 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5