

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

Select LotNo :

## Lab027

QC Control Lot No.	Control N		Control D	
	BA1116N		BA1116D	
Duration of the Analyzing	Month (2023/12)	CUM (2023/03/30~2023/12/30)	Month (2023/12)	CUM (2023/03/30~2023/12/30)
Runs (N)	4	26	4	26
Mean (U/gHb)	13.9	14.9	4.8	4.9
SD	1.3	1.1	0.5	0.4
CV (%)	9.4	7.4	10.4	8.2
Target Value (U/gHb)	12.8	12.8	4.2	4.2
Total Error (%)	27.3	31.2	35.1	33.0
TEa (%)	20	20	20	20
$\sigma$	1.2	0.5	0.5	0.4

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

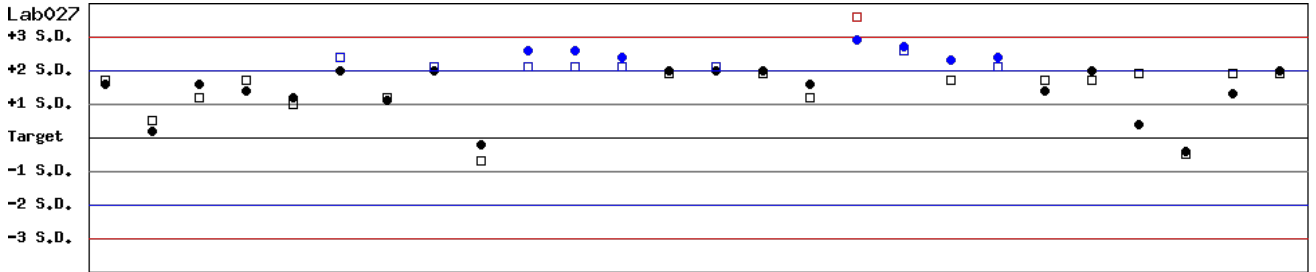
Month :    ; Cumulative : from    to

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## Control N and Control D SDI QC Chart

Lot No.: BA1116N ; Duration : 2023-03-30 to 2023-12-30 ; Target : 12.8 ; SD : 1.28 (●)

Lot No.: BA1116D ; Duration : 2023-03-30 to 2023-12-30 ; Target : 4.2 ; SD : 0.42 (□)



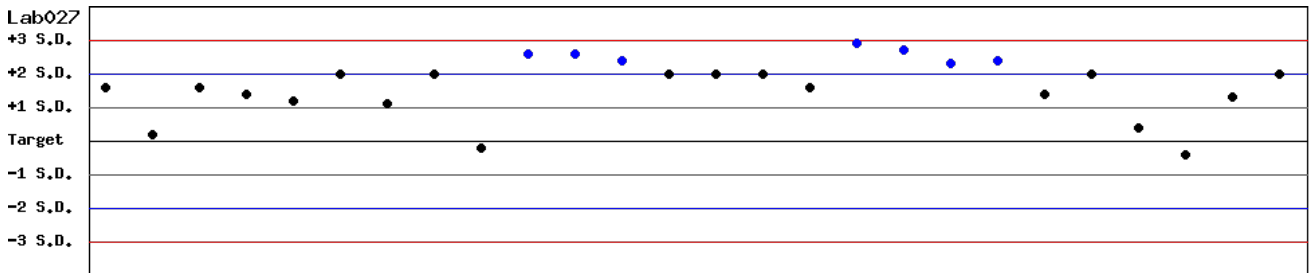
Date 03-30 04-06 04-13 04-20 04-27 05-04 05-11 05-18 05-23 07-06 07-13 07-20 07-27 10-05 10-12 10-19 10-26 11-02 11-09 11-16 11-23 11-23 12-07 12-14 12-21 12-28

Month :    ; Cumulative : from    to

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## Control N SDI QC Chart

Lot No.: BA1116N ; Duration : 2023-03-30 to 2023-12-30 ; Target : 12.8 ; SD : 1.28



Date 03-30 04-06 04-13 04-20 04-27 05-04 05-11 05-18 05-23 07-06 07-13 07-20 07-27 10-05 10-12 10-19 10-26 11-02 11-09 11-16 11-23 11-23 12-07 12-14 12-21 12-28

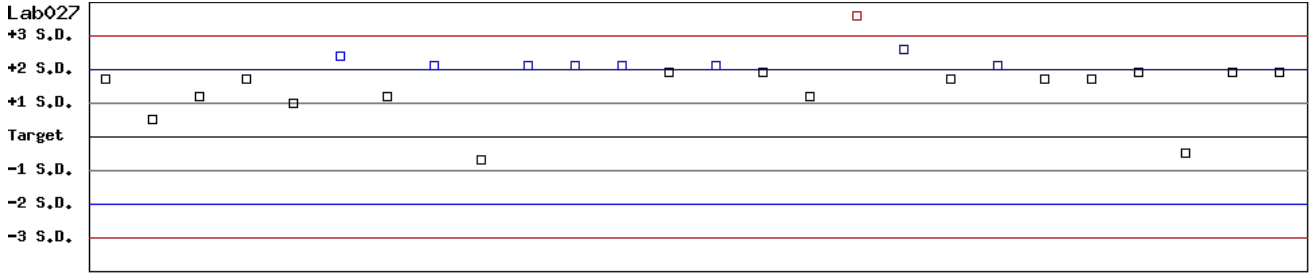
Month :    ; Cumulative : from    to

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## Control D SDI QC Chart

Lot No.: BA1116D ; Duration : 2023-03-30 to 2023-12-30 ; Target : 4.2 ; SD : 0.42

Lab027



**Date** 03-30 04-06 04-13 04-20 04-27 05-04 05-11 05-18 05-23 07-06 07-13 07-20 07-27 10-05 10-12 10-19 10-26 11-02 11-09 11-16 11-23 11-23 12-07 12-14 12-21 12-28

Month :    ; Cumulative : from    to

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# Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon

## Monthly

Month : 2023

		Control N (Lot No.: BA1116N)								Control D (Lot No.: BA1116D)							
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="#">Lab027</a>	5	12.8	13.9	4	1.3	9.4	27.3	20	1.2	4.2	4.8	4	0.5	10.4	35.1	20	0.5
<a href="#">Lab033</a>	5	15.8	15.7	4	0.4	2.5	5.7	20	>6	4.2	4.9	4	0.1	2.0	20.7	20	1.7
Total	-	-	14.8	8	1.3	8.8	-	-	-	-	4.8	8	0.3	6.3	-	-	-

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

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

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

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## Cumulative

Cumulative : from 2022   to 2023

		Control N (Lot No.: BA1116N)								Control D (Lot No.: BA1116D)							
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	13.6	13.8	113	0.4	2.9	7.3	20	>6	4.3	4.4	113	0.1	2.3	6.9	20	>6
<a href="#">Lab027</a>	5	12.8	14.9	68	0.9	6.0	28.5	20	0.6	4.2	4.8	68	0.4	8.3	31.0	20	0.7
<a href="#">Lab033</a>	5	15.8	15.9	22	0.7	4.4	9.4	20	4.4	4.2	4.8	22	0.3	6.3	26.8	20	0.9
<a href="#">Lab037</a>	5	12.8	14.0	8	0.4	2.9	15.1	20	3.7	4.2	4.5	8	0.2	4.4	16.0	20	2.9
Total	-	-	14.4	211	0.9	6.3	-	-	-	-	4.6	211	0.3	6.5	-	-	-

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 : 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 (2023/12)								CUM (2022/06/01~2023/12/31)							
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	13.6	-	0	-	-	-	20	-	13.6	13.8	113	0.4	2.9	7.3	20	>6
<a href="#">Lab027</a>	5	12.8	13.9	4	1.3	9.4	27.3	20	1.2	12.8	14.9	68	0.9	6.0	28.5	20	0.6
<a href="#">Lab033</a>	5	15.8	15.7	4	0.4	2.5	5.7	20	>6	15.8	15.9	22	0.7	4.4	9.4	20	4.4
<a href="#">Lab037</a>	5	12.8	-	0	-	-	-	20	-	12.8	14.0	8	0.4	2.9	15.1	20	3.7
<b>Total</b>	-	-	14.8	8	1.3	8.8	-	-	-	-	14.4	211	0.9	6.3	-	-	-

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

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

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

Month : 2023 ▼ 12 ▼ Change    Cumulative : from 2022 ▼ 06 ▼ 01 ▼ to 2023 ▼ 12 ▼ 31 ▼ Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: BA1116D)															
		Month (2023/12)								CUM (2022/06/01~2023/12/31)							
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	4.3	-	0	-	-	-	20	-	4.3	4.4	113	0.1	2.3	6.9	20	>6
<a href="#">Lab027</a>	5	4.2	4.8	4	0.5	10.4	35.1	20	0.5	4.2	4.8	68	0.4	8.3	31.0	20	0.7
<a href="#">Lab033</a>	5	4.2	4.9	4	0.1	2.0	20.7	20	1.7	4.2	4.8	22	0.3	6.3	26.8	20	0.9
<a href="#">Lab037</a>	5	4.2	-	0	-	-	-	20	-	4.2	4.5	8	0.2	4.4	16.0	20	2.9
<b>Total</b>	-	-	4.8	8	0.3	6.3	-	-	-	-	4.6	211	0.3	6.5	-	-	-

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

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

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

Month : 2023 ▼ 12 ▼ Change    Cumulative : from 2022 ▼ 06 ▼ 01 ▼ to 2023 ▼ 12 ▼ 31 ▼ Change

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Reagent Kit	Reagent Code
Medicon	5