

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

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

[Print Table](#)

## Lab033

QC Control Lot No.	Control N		Control D	
	BA1116N		BA1116D	
Duration of the Analyzing	Month (2023/11)	CUM (2023/08/03~2023/11/30)	Month (2023/11)	CUM (2023/08/03~2023/11/30)
Runs (N)	5	18	5	18
Mean (U/gHb)	15.5	15.9	4.6	4.8
SD	1.0	0.8	0.5	0.4
CV (%)	6.5	5.0	10.9	8.3
Target Value (U/gHb)	12.8	12.8	4.2	4.2
Total Error (%)	34.0	34.3	31.3	31.0
TEa (%)	20	20	20	20
$\sigma$	-0.2	-0.8	1.0	0.7

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 11 Change ; Cumulative : from 2023 08 03 to 2023 11 30 Change

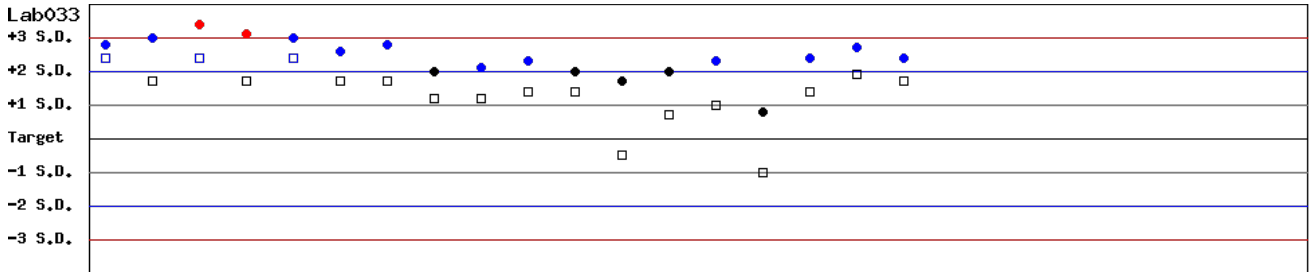
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## Control N and Control D SDI QC Chart

Lot No.: BA1116N ; Duration : 2023-08-03 to 2023-11-30 ; Target : 12.8 ; SD : 1.28 (●)

Lot No.: BA1116D ; Duration : 2023-08-03 to 2023-11-30 ; Target : 4.2 ; SD : 0.42 (□)

Lab033



Date 08-03 08-10 08-17 08-24 08-31 09-07 09-14 09-21 09-28 10-05 10-12 10-19 10-26 11-02 11-09 11-16 11-23 11-30

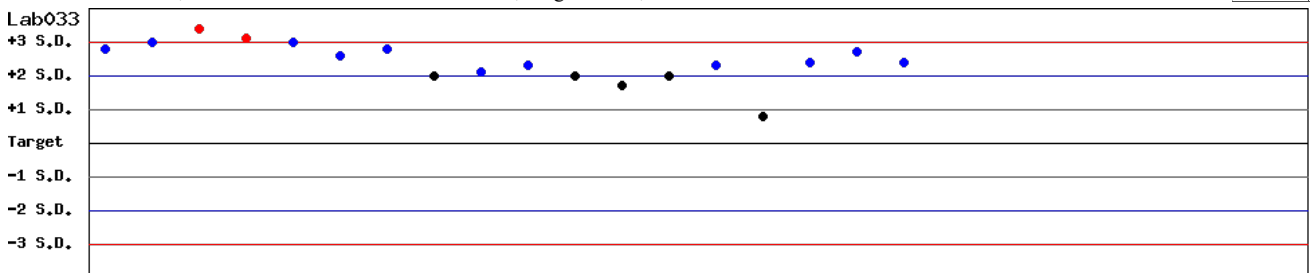
Month : 2023 11 Change ; Cumulative : from 2023 08 03 to 2023 11 30 Change

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## Control N SDI QC Chart

Lot No.: BA1116N ; Duration : 2023-08-03 to 2023-11-30 ; Target : 12.8 ; SD : 1.28

Lab033



Date 08-03 08-10 08-17 08-24 08-31 09-07 09-14 09-21 09-28 10-05 10-12 10-19 10-26 11-02 11-09 11-16 11-23 11-30

Month : 2023 11 Change ; Cumulative : from 2023 08 03 to 2023 11 30 Change

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# Control D SDI QC Chart

Lot No.: BA1116D ; Duration : 2023-08-03 to 2023-11-30 ; Target : 4.2 ; SD : 0.42

Lab033

Lab033

+3 S.D.  
+2 S.D.  
+1 S.D.  
Target  
-1 S.D.  
-2 S.D.  
-3 S.D.



Date 08-03 08-10 08-17 08-24 08-31 09-07 09-14 09-21 09-28 10-05 10-12 10-19 10-26 11-02 11-09 11-16 11-23 11-30

Month : 2023 11 Change ; Cumulative : from 2023 08 03 to 2023 11 30 Change

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# Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon Change

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## Monthly

Month : 2023 11 Change

UnitID	Reagent Kit (Code)	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	15.6	5	0.6	3.8	29.6	20	-0.5	4.2	5.0	5	0.2	4.0	27.0	20	0.2
<a href="#">Lab033</a>	5	12.8	15.5	5	1.0	6.5	34.0	20	-0.2	4.2	4.6	5	0.5	10.9	31.3	20	1.0
<a href="#">Lab037</a>	5	12.8	13.7	2	-	-	-	20	-	4.2	4.4	2	-	-	-	20	-
Total	-	-	15.2	12	1.0	6.6	-	-	-	-	4.8	12	0.4	8.3	-	-	-

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 06 01 to 2023 11 30 Change

UnitID	Reagent Kit (Code)	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	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	15.0	64	0.8	5.3	27.9	20	0.5	4.2	4.8	64	0.4	8.3	31.0	20	0.7
<a href="#">Lab033</a>	5	12.8	15.9	18	0.8	5.0	34.3	20	-0.8	4.2	4.8	18	0.4	8.3	31.0	20	0.7
<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	203	0.9	6.3	-	-	-	-	4.6	203	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 (2023/11)								CUM (2022/06/01~2023/11/30)							
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	13.8	113	0.4	2.9	7.3	20	>6
<a href="#">Lab027</a>	5	12.8	15.6	5	0.6	3.8	29.6	20	-0.5	12.8	15.0	64	0.8	5.3	27.9	20	0.5
<a href="#">Lab033</a>	5	12.8	15.5	5	1.0	6.5	34.0	20	-0.2	12.8	15.9	18	0.8	5.0	34.3	20	-0.8
<a href="#">Lab037</a>	5	12.8	13.7	2	-	-	-	20	-	12.8	14.0	8	0.4	2.9	15.1	20	3.7
Total	-	-	15.2	12	1.0	6.6	-	-	-	-	14.4	203	0.9	6.3	-	-	-

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

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

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

Month : 2023 11 Change      Cumulative : from 2022 06 01 to 2023 11 30 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: BA1116D)															
		Month (2023/11)								CUM (2022/06/01~2023/11/30)							
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	4.4	113	0.1	2.3	6.9	20	>6
<a href="#">Lab027</a>	5	4.2	5.0	5	0.2	4.0	27.0	20	0.2	4.2	4.8	64	0.4	8.3	31.0	20	0.7
<a href="#">Lab033</a>	5	4.2	4.6	5	0.5	10.9	31.3	20	1.0	4.2	4.8	18	0.4	8.3	31.0	20	0.7
<a href="#">Lab037</a>	5	4.2	4.4	2	-	-	-	20	-	4.2	4.5	8	0.2	4.4	16.0	20	2.9
Total	-	-	4.8	12	0.4	8.3	-	-	-	-	4.6	203	0.3	6.5	-	-	-

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

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

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

Month : 2023 11 Change      Cumulative : from 2022 06 01 to 2023 11 30 Change

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Reagent Kit	Reagent Code
Medicon	5