

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

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

[Print Table](#)

Lab037

QC Control Lot No.	Control N		Control D	
	BA1116N		BA1116D	
Duration of the Analyzing	Month (2023/11)	CUM (2023/07/28~2023/11/30)	Month (2023/11)	CUM (2023/07/28~2023/11/30)
Runs (N)	2	8	2	8
Mean (U/gHb)	13.7	14.0	4.4	4.5
SD	-	0.4	-	0.2
CV (%)	-	2.9	-	4.4
Target Value (U/gHb)	12.8	12.8	4.2	4.2
Total Error (%)	-	15.1	-	16.0
TEa (%)	20	20	20	20
σ	-	3.7	-	2.9

Bias (%) = $\left[\frac{|\text{Mean} - \text{Target}|}{\text{Target}} \right] \times 100\%$

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

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

Month : 2023 11 Change ; Cumulative : from 2023 07 28 to 2023 11 30 Change

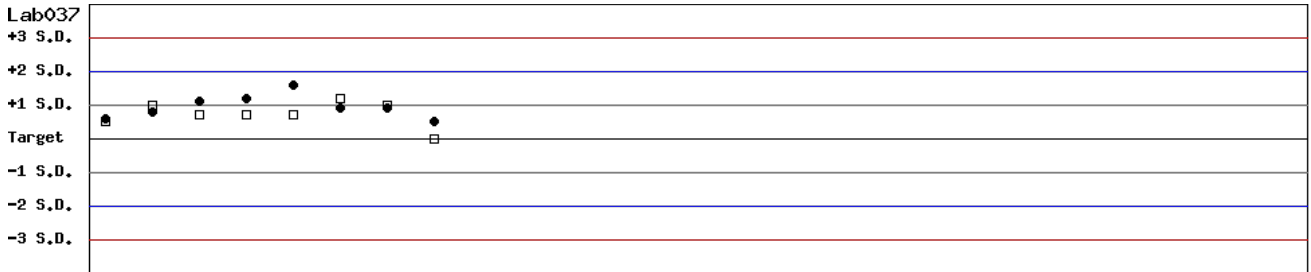
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Control N and Control D SDI QC Chart

Lot No.: BA1116N ; Duration : 2023-07-28 to 2023-11-30 ; Target : 12.8 ; SD : 1.28 (●)

Lot No.: BA1116D ; Duration : 2023-07-28 to 2023-11-30 ; Target : 4.2 ; SD : 0.42 (□)

Lab037



Date 07-28 08-24 09-08 09-29 10-12 10-26 11-09 11-24

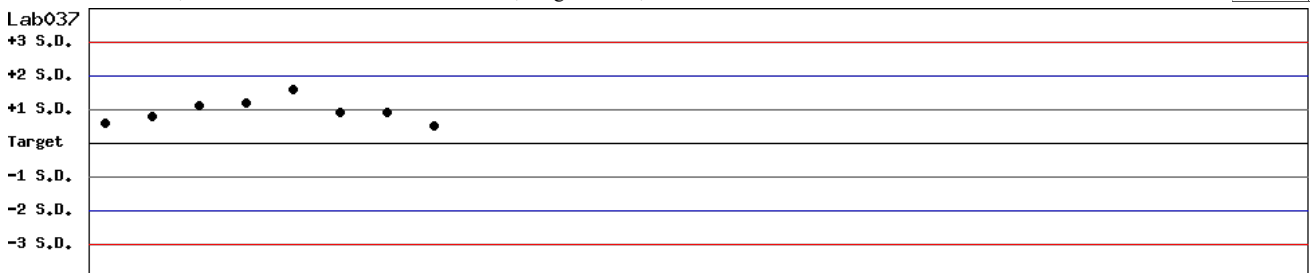
Month : 2023 11 Change ; Cumulative : from 2023 07 28 to 2023 11 30 Change

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Control N SDI QC Chart

Lot No.: BA1116N ; Duration : 2023-07-28 to 2023-11-30 ; Target : 12.8 ; SD : 1.28

Lab037



Date 07-28 08-24 09-08 09-29 10-12 10-26 11-09 11-24

Month : 2023 11 Change ; Cumulative : from 2023 07 28 to 2023 11 30 Change

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Control D SDI QC Chart

Lot No.: BA1116D ; Duration : 2023-07-28 to 2023-11-30 ; Target : 4.2 ; SD : 0.42

Lab037

Lab037

+3 S.D.

+2 S.D.

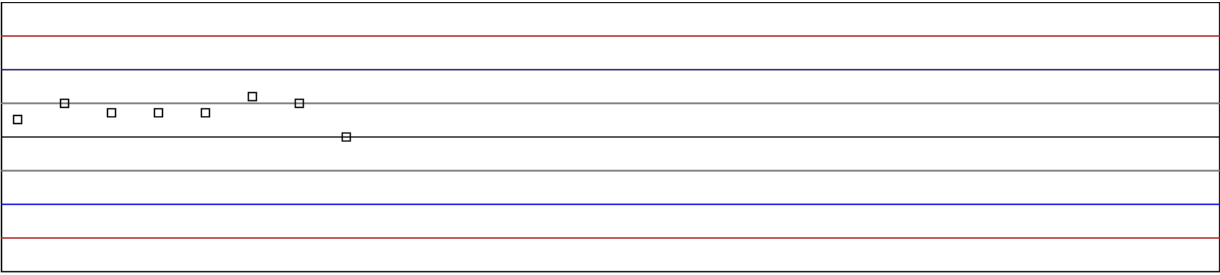
+1 S.D.

Target

-1 S.D.

-2 S.D.

-3 S.D.



Date 07-28 08-24 09-08 09-29 10-12 10-26 11-09 11-24

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 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
Lab027	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
Lab033	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
Lab037	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

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
Lab018	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
Lab027	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
Lab033	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
Lab037	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
Lab018	5	13.6	-	0	-	-	-	20	-	13.6	13.8	113	0.4	2.9	7.3	20	>6
Lab027	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
Lab033	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
Lab037	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
Lab018	5	4.3	-	0	-	-	-	20	-	4.3	4.4	113	0.1	2.3	6.9	20	>6
Lab027	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
Lab033	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
Lab037	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