

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

Select LotNo :

Lab027

QC Control Lot No.	Control N		Control D	
	BA1116N		BA1116D	
Duration of the Analyzing	Month (2023/04)	CUM (2022/10/27~2023/04/28)	Month (2023/04)	CUM (2022/10/27~2023/04/28)
Runs (N)	4	26	4	26
Mean (U/gHb)	14.2	14.8	4.7	4.8
SD	0.8	0.8	0.2	0.2
CV (%)	5.6	5.4	4.3	4.2
Target Value (U/gHb)	12.8	12.8	4.2	4.2
Total Error (%)	22.2	26.4	20.4	22.6
TEa (%)	20	20	20	20
σ	1.6	0.8	1.9	1.4

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

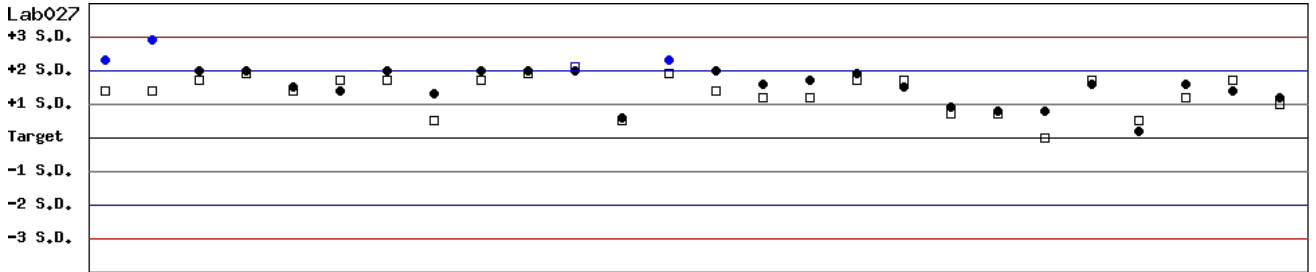
Month : ; Cumulative : from to

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Control N and Control D SDI QC Chart

Lot No.: BA1116N ; Duration : 2022-10-27 to 2023-04-28 ; Target : 12.8 ; SD : 1.28 (●)

Lot No.: BA1116D ; Duration : 2022-10-27 to 2023-04-28 ; Target : 4.2 ; SD : 0.42 (□)



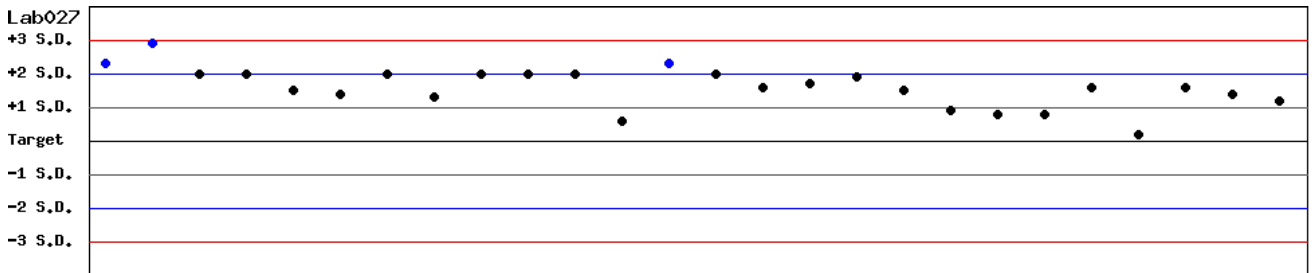
Date 10-27 11-03 11-10 11-17 11-24 12-01 12-08 12-15 12-22 12-29 01-05 01-12 01-19 01-26 02-02 02-09 02-16 02-23 03-02 03-09 03-16 03-30 04-06 04-13 04-20 04-27

Month : ; Cumulative : from to

[\[TOP\]](#)

Control N SDI QC Chart

Lot No.: BA1116N ; Duration : 2022-10-27 to 2023-04-28 ; Target : 12.8 ; SD : 1.28



Date 10-27 11-03 11-10 11-17 11-24 12-01 12-08 12-15 12-22 12-29 01-05 01-12 01-19 01-26 02-02 02-09 02-16 02-23 03-02 03-09 03-16 03-30 04-06 04-13 04-20 04-27

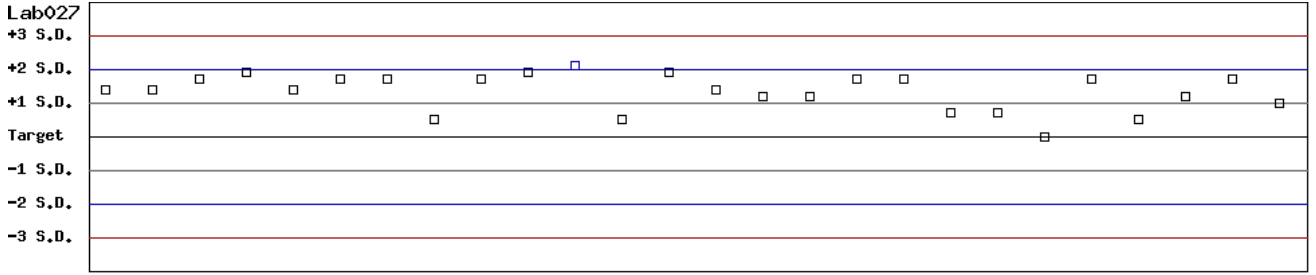
Month : ; Cumulative : from to

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Control D SDI QC Chart

Lot No.: BA1116D ; Duration : 2022-10-27 to 2023-04-28 ; Target : 4.2 ; SD : 0.42

Lab027



Date 10-27 11-03 11-10 11-17 11-24 12-01 12-08 12-15 12-22 12-29 01-05 01-12 01-19 01-26 02-02 02-09 02-16 02-23 03-02 03-09 03-16 03-30 04-06 04-13 04-20 04-27

Month : ; Cumulative : from to

[TOP](#)

Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon Change

[Print Table 1](#)

Monthly

Month : 2023 04 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
Lab018	5	13.6	13.9	4	0.3	2.2	6.5	20	>6	4.3	4.5	4	0.1	2.2	9.1	20	>6
Lab027	5	12.8	14.2	4	0.8	5.6	22.2	20	1.6	4.2	4.7	4	0.2	4.3	20.4	20	1.9
Total	-	-	14.1	8	0.6	4.3	-	-	-	-	4.6	8	0.2	4.3	-	-	-

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 04 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
Lab018	5	13.6	13.6	66	0.3	2.2	4.4	20	>6	4.3	4.4	66	0.1	2.3	6.9	20	>6
Lab027	5	12.8	14.9	47	0.7	4.7	25.8	20	0.8	4.2	4.8	47	0.3	6.3	26.8	20	0.9
Total	-	-	14.1	113	0.8	5.7	-	-	-	-	4.5	113	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 (2023/04)								CUM (2022/06/01~2023/04/30)							
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	13.9	4	0.3	2.2	6.5	20	>6	13.6	13.6	66	0.3	2.2	4.4	20	>6
Lab027	5	12.8	14.2	4	0.8	5.6	22.2	20	1.6	12.8	14.9	47	0.7	4.7	25.8	20	0.8
Total	-	-	14.1	8	0.6	4.3	-	-	-	-	14.1	113	0.8	5.7	-	-	-

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

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

Month : 2023 ▼ 04 ▼ Change Cumulative : from 2022 ▼ 06 ▼ 01 ▼ to 2023 ▼ 04 ▼ 30 ▼ Change

[TOP](#)

Control D Month vs. Cumulative

		Control D (Lot No.: BA1116D)															
		Month (2023/04)								CUM (2022/06/01~2023/04/30)							
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	4.5	4	0.1	2.2	9.1	20	>6	4.3	4.4	66	0.1	2.3	6.9	20	>6
Lab027	5	4.2	4.7	4	0.2	4.3	20.4	20	1.9	4.2	4.8	47	0.3	6.3	26.8	20	0.9
Total	-	-	4.6	8	0.2	4.3	-	-	-	-	4.5	113	0.3	6.7	-	-	-

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

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

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

Month : 2023 ▼ 04 ▼ Change Cumulative : from 2022 ▼ 06 ▼ 01 ▼ to 2023 ▼ 04 ▼ 30 ▼ Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5