

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

Select LotNo :

Lab052

QC Control Lot No.	Control N		Control D	
	BE0116N		BE0116D	
Duration of the Analyzing	Month (2026/01)	CUM (2025/12/04~2026/01/30)	Month (2026/01)	CUM (2025/12/04~2026/01/30)
Runs (N)	2	6	2	6
Mean (U/gHb)	13.3	13.4	4.8	4.7
SD	-	0.2	-	0.2
CV (%)	-	1.5	-	4.3
Target Value (U/gHb)	13.5	13.5	4.9	4.9
Total Error (%)	-	3.7	-	12.6
TEa (%)	20	20	20	20
σ	-	>6	-	3.7

Bias (%) = $\left[\frac{(\text{Mean} - \text{Target})}{\text{Target}} \right] \times 100\%$
 TE : Total Error(%) = Bias (%) + 2 × CV (%)
 σ (Sigma) = [TEa% - Bias (%)] / CV (%)

Month : ; Cumulative : from to

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Control N and Control D SDI QC Chart

Lot No.: BE0116N ; Duration : 2025-12-04 to 2026-01-30 ; Target : 13.5 ; SD : 0.30 (●)

Lot No.: BE0116D ; Duration : 2025-12-04 to 2026-01-30 ; Target : 4.9 ; SD : 0.20 (□)



Month : ; Cumulative : from to

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Control N SDI QC Chart

Lot No.: BE0116N ; Duration : 2025-12-04 to 2026-01-30 ; Target : 13.5 ; SD : 0.30



Month : ; Cumulative : from to

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Control D SDI QC Chart

Lot No.: BE0116D ; Duration : 2025-12-04 to 2026-01-30 ; Target : 4.9 ; SD : 0.20

Lab052



Date 12-04 12-11 12-18 12-26 01-08 01-15

Month : 2026 ▾ 01 ▾ Change ; Cumulative : from 2025 ▾ 12 ▾ 04 ▾ to 2026 ▾ 01 ▾ 30 ▾ Change

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Peer Group Statistics (Table 1)

Select LotNo : BE0116N (2025-02-12 ~ 2100-12-31) v Change

Select Reagent Kit : 5 - Medicon v Change

Print Table 1

Monthly

Month : 2026 v 01 v Change

UnitID	Reagent Kit (Code)	Control N (Lot No.: BE0116N)								Control D (Lot No.: BE0116D)							
		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
Lab019	5	13.5	13.5	4	0.1	0.7	1.5	20	>6	4.9	4.8	4	0.1	2.1	6.2	20	>6
Lab037	5	13.5	13.0	2	-	-	-	20	-	4.9	4.7	2	-	-	-	20	-
Lab052	5	13.5	13.3	2	-	-	-	20	-	4.9	4.8	2	-	-	-	20	-
Total	-	-	13.3	8	0.3	2.3	-	-	-	-	4.7	8	0.2	4.3	-	-	-

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

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

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

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Cumulative

Cumulative : from 2025 v 04 v 01 v to 2026 v 01 v 31 v Change

UnitID	Reagent Kit (Code)	Control N (Lot No.: BE0116N)								Control D (Lot No.: BE0116D)							
		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	15.3	14.3	16	0.2	1.4	9.3	20	>6	4.7	5.1	16	0.1	2.0	12.4	20	5.7
Lab019	5	13.5	13.5	22	0.2	1.5	3.0	20	>6	4.9	4.8	22	0.1	2.1	6.2	20	>6
Lab037	5	13.5	13.0	2	-	-	-	20	-	4.9	4.7	2	-	-	-	20	-
Lab052	5	13.5	13.4	6	0.2	1.5	3.7	20	>6	4.9	4.7	6	0.2	4.3	12.6	20	3.7
Total	-	-	13.8	46	0.5	3.6	-	-	-	-	4.9	46	0.2	4.1	-	-	-

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 : BE0116N (2025-02-12 ~ 2100-12-31) v Change

Select Reagent Kit : 5 - Medicon v Change

Print Table 2

Control N Month vs. Cumulative

		Control N (Lot No.: BE0116N)															
		Month (2026/01)								CUM (2025/04/01~2026/01/31)							
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	15.3	-	0	-	-	-	20	-	15.3	14.3	16	0.2	1.4	9.3	20	>6
Lab019	5	13.5	13.5	4	0.1	0.7	1.5	20	>6	13.5	13.5	22	0.2	1.5	3.0	20	>6
Lab037	5	13.5	13.0	2	-	-	-	20	-	13.5	13.0	2	-	-	-	20	-
Lab052	5	13.5	13.3	2	-	-	-	20	-	13.5	13.4	6	0.2	1.5	3.7	20	>6
Total	-	-	13.3	8	0.3	2.3	-	-	-	-	13.8	46	0.5	3.6	-	-	-

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

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

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

Month : 2026 v 01 v Change Cumulative : from 2025 v 04 v 01 v to 2026 v 01 v 31 v Change

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Control D Month vs. Cumulative

		Control D (Lot No.: BE0116D)															
		Month (2026/01)								CUM (2025/04/01~2026/01/31)							
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	4.7	-	0	-	-	-	20	-	4.7	5.1	16	0.1	2.0	12.4	20	5.7
Lab019	5	4.9	4.8	4	0.1	2.1	6.2	20	>6	4.9	4.8	22	0.1	2.1	6.2	20	>6
Lab037	5	4.9	4.7	2	-	-	-	20	-	4.9	4.7	2	-	-	-	20	-
Lab052	5	4.9	4.8	2	-	-	-	20	-	4.9	4.7	6	0.2	4.3	12.6	20	3.7
Total	-	-	4.7	8	0.2	4.3	-	-	-	-	4.9	46	0.2	4.1	-	-	-

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

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

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

Month : 2026 v 01 v Change Cumulative : from 2025 v 04 v 01 v to 2026 v 01 v 31 v Change

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Reagent Kit	Reagent Code
Medicon	5