

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

Select LotNo :

BD0728N (2024-08-20 ~ 2100-12-31)

Change

Print Table

Lab040

QC Control Lot No.	Control N		Control D	
	BD0728N		BD0728D	
	Month (2025/12)	CUM (2025/08/01~2025/12/31)	Month (2025/12)	CUM (2025/08/01~2025/12/31)
Runs (N)	5	20	5	20
Mean (U/gHb)	14.8	15.0	4.7	4.8
SD	0.2	0.3	0.1	0.1
CV (%)	1.4	2.0	2.1	2.1
Target Value (U/gHb)	14.9	14.9	4.8	4.8
Total Error (%)	3.4	4.7	6.3	4.2
TEa (%)	20	20	20	20
σ	>6	>6	>6	>6

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

Month :

2025

12

Change

 ; Cumulative : from

2025

08

01

 to

2025

12

31

Change

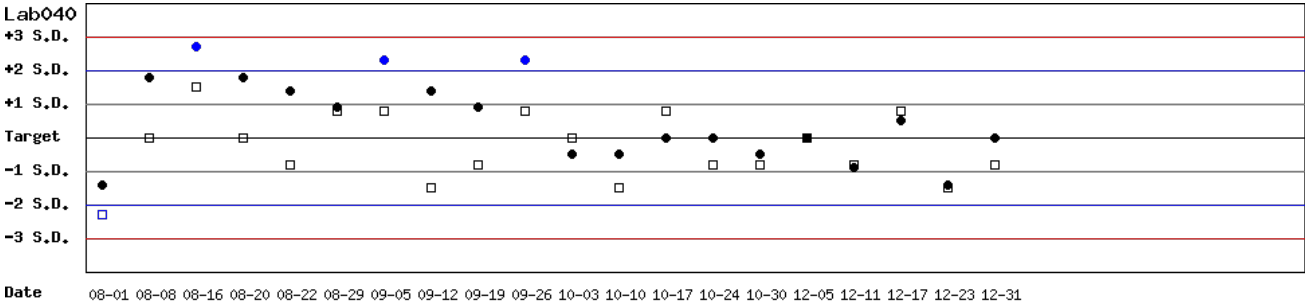
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Control N and Control D SDI
QC Chart

Lot No.: BD0728N ; Duration : 2025-08-01 to 2025-12-31 ; Target : 14.9 ; SD : 0.22 (●)

Lot No.: BD0728D ; Duration : 2025-08-01 to 2025-12-31 ; Target : 4.8 ; SD : 0.13 (□)

Lab040



Month :

2025

12

Change

 ; Cumulative : from

2025

08

01

 to

2025

12

31

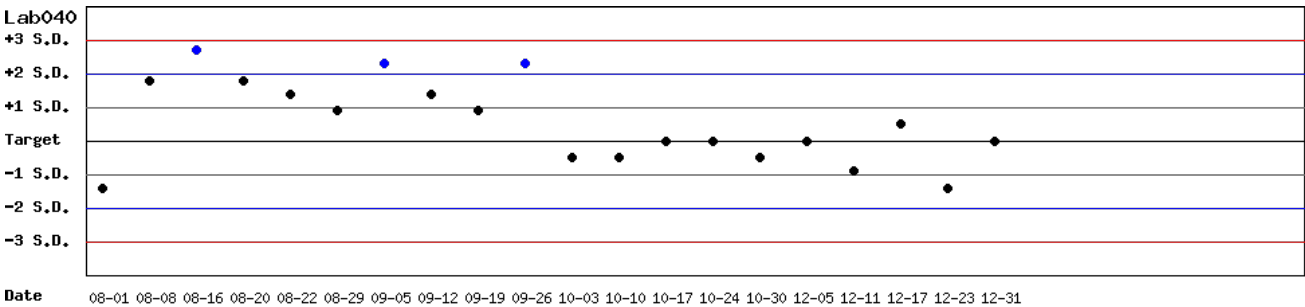
Change

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Control N SDI QC Chart

Lot No.: BD0728N ; Duration : 2025-08-01 to 2025-12-31 ; Target : 14.9 ; SD : 0.22

Lab040



Month :

2025

12

Change

 ; Cumulative : from

2025

08

01

 to

2025

12

31

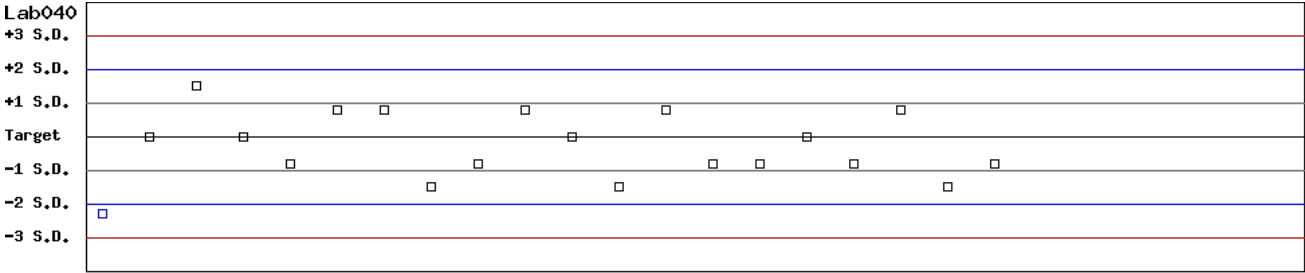
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Control D SDI QC Chart

Lot No.: BD0728D ; Duration : 2025-08-01 to 2025-12-31 ; Target : 4.8 ; SD : 0.13

Lab040



Date 08-01 08-08 08-16 08-20 08-22 08-29 09-05 09-12 09-19 09-26 10-03 10-10 10-17 10-24 10-30 12-05 12-11 12-17 12-23 12-31

Month : 2025 12 Change ; Cumulative : from 2025 08 01 to 2025 12 31 Change

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Peer Group Statistics (Table 1)

Select LotNo : BD0728N (2024-08-20 ~ 2100-12-31) ▾ Change

Select Reagent Kit : 5 - Medicon ▾ Change

Print Table 1

Monthly

Month : 2025 ▾ 12 ▾ Change

		Control N (Lot No.: BD0728N)									Control D (Lot No.: BD0728D)							
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
Lab033	5	15.1	15.2	3	0.3	2.0	4.6	20	>6		4.6	4.9	3	0.1	2.0	10.6	20	>6
Lab040	5	14.9	14.8	5	0.2	1.4	3.4	20	>6		4.8	4.7	5	0.1	2.1	6.3	20	>6
Total	-	-	15.0	8	0.3	2.0	-	-	-		-	4.8	8	0.1	2.1	-	-	-

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

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

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

[\[TOP\]](#)

Cumulative

Cumulative : from 2024 ▾ 09 ▾ 01 ▾ to 2025 ▾ 12 ▾ 31 ▾ Change

		Control N (Lot No.: BD0728N)									Control D (Lot No.: BD0728D)							
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
Lab033	5	15.1	15.0	39	0.5	3.3	7.3	20	5.9		4.6	4.7	39	0.2	4.3	10.7	20	4.1
Lab040	5	14.9	15.0	20	0.3	2.0	4.7	20	>6		4.8	4.8	20	0.1	2.1	4.2	20	>6
Lab052	5	14.9	15.0	29	0.4	2.7	6.0	20	>6		4.6	4.6	29	0.1	2.2	4.3	20	>6
Total	-	-	15.0	88	0.4	2.7	-	-	-		-	4.7	88	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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Reagent Kit	Reagent Code
Medicon	5

Peer Group Statistics (Table 2)

Select LotNo : BD0728N (2024-08-20 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 2

Control N Month vs.
Cumulative

		Control N (Lot No.: BD0728N)															
		Month (2025/12)								CUM (2024/09/01~2025/12/31)							
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
Lab033	5	15.1	15.2	3	0.3	2.0	4.6	20	>6	15.1	15.0	39	0.5	3.3	7.3	20	5.9
Lab040	5	14.9	14.8	5	0.2	1.4	3.4	20	>6	14.9	15.0	20	0.3	2.0	4.7	20	>6
Lab052	5	14.9	-	0	-	-	-	20	-	14.9	15.0	29	0.4	2.7	6.0	20	>6
Total	-	-	15.0	8	0.3	2.0	-	-	-	-	15.0	88	0.4	2.7	-	-	-

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

Month : 2025 12 Change Cumulative : from 2024 09 01 to 2025 12 31 Change

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Control D Month vs.
Cumulative

		Control D (Lot No.: BD0728D)															
		Month (2025/12)								CUM (2024/09/01~2025/12/31)							
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
Lab033	5	4.6	4.9	3	0.1	2.0	10.6	20	>6	4.6	4.7	39	0.2	4.3	10.7	20	4.1
Lab040	5	4.8	4.7	5	0.1	2.1	6.3	20	>6	4.8	4.8	20	0.1	2.1	4.2	20	>6
Lab052	5	4.6	-	0	-	-	-	20	-	4.6	4.6	29	0.1	2.2	4.3	20	>6
Total	-	-	4.8	8	0.1	2.1	-	-	-	-	4.7	88	0.2	4.3	-	-	-

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

Month : 2025 12 Change Cumulative : from 2024 09 01 to 2025 12 31 Change

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Reagent Kit	Reagent Code
Medicon	5