

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

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

[Print Table](#)

Lab033

QC Control Lot No.	Control N		Control D	
	BD0728N		BD0728D	
Duration of the Analyzing	Month (2026/01)	CUM (2025/07/31~2026/01/29)	Month (2026/01)	CUM (2025/07/31~2026/01/29)
Runs (N)	5	26	5	26
Mean (U/gHb)	14.9	15.1	4.7	4.8
SD	0.4	0.4	0.2	0.2
CV (%)	2.7	2.6	4.3	4.2
Target Value (U/gHb)	15.1	15.1	4.6	4.6
Total Error (%)	6.7	5.3	10.7	12.7
TEa (%)	20	20	20	20
σ	>6	>6	4.1	3.7

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

Month : 2026 01 Change ; Cumulative : from 2025 07 31 to 2026 01 29 Change

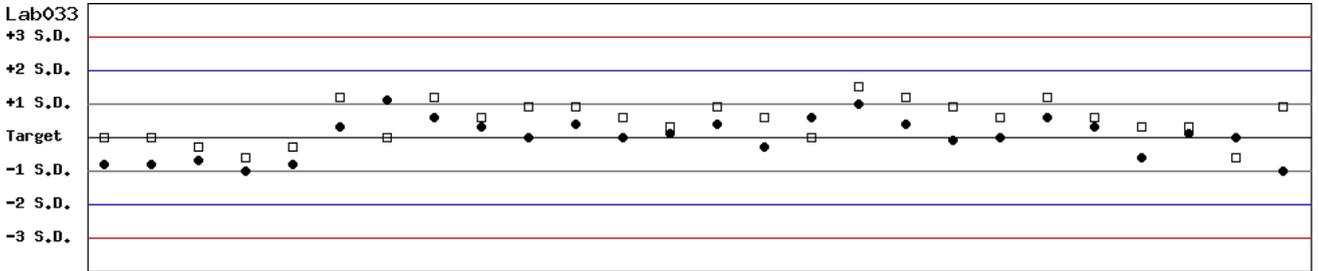
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Control N and Control D SDI QC Chart

Lot No.: BD0728N ; Duration : 2025-07-31 to 2026-01-29 ; Target : 15.1 ; SD : 0.71 (●)

Lot No.: BD0728D ; Duration : 2025-07-31 to 2026-01-29 ; Target : 4.6 ; SD : 0.33 (□)

Lab033



Date 07-31 08-07 08-14 08-21 08-28 09-04 09-11 09-18 09-25 10-02 10-09 10-16 10-23 10-30 11-06 11-13 11-20 11-27 12-04 12-11 12-18 12-25 01-01 01-08 01-15 01-22 01-29

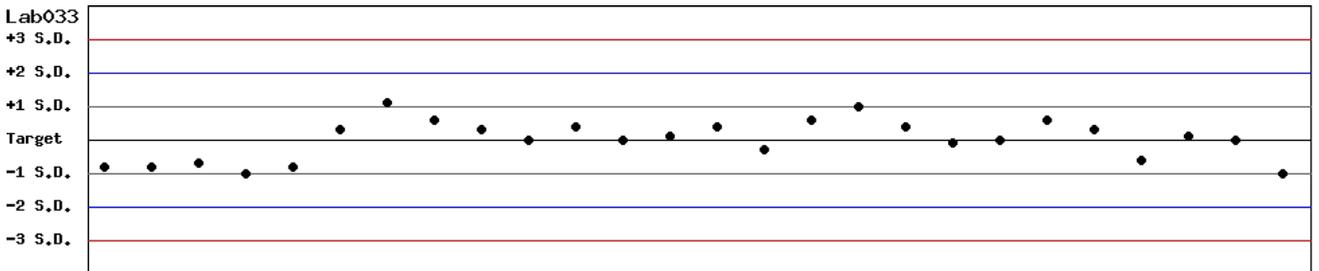
Month : 2026 01 Change ; Cumulative : from 2025 07 31 to 2026 01 29 Change

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Control N SDI QC Chart

Lot No.: BD0728N ; Duration : 2025-07-31 to 2026-01-29 ; Target : 15.1 ; SD : 0.71

Lab033



Date 07-31 08-07 08-14 08-21 08-28 09-04 09-11 09-18 09-25 10-02 10-09 10-16 10-23 10-30 11-06 11-13 11-20 11-27 12-04 12-11 12-18 12-25 01-01 01-08 01-15 01-22 01-29

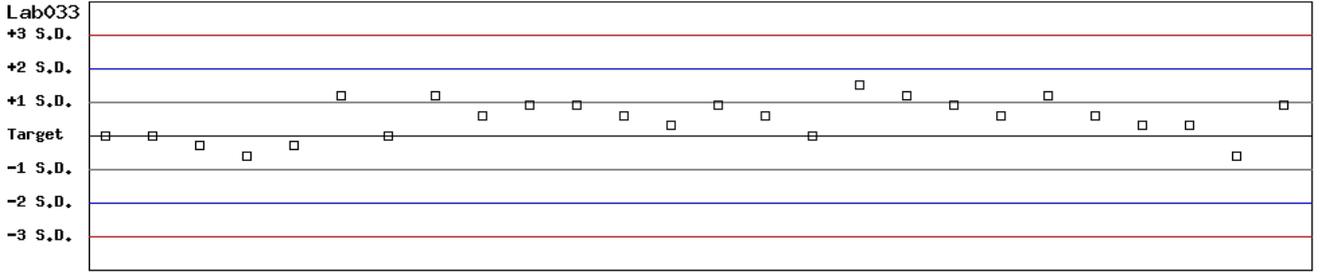
Month : 2026 01 Change ; Cumulative : from 2025 07 31 to 2026 01 29 Change

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Control D SDI QC Chart

Lot No.: BD0728D ; Duration : 2025-07-31 to 2026-01-29 ; Target : 4.6 ; SD : 0.33

Lab033



Date 07-31 08-07 08-14 08-21 08-28 09-04 09-11 09-18 09-25 10-02 10-09 10-16 10-23 10-30 11-06 11-13 11-20 11-27 12-04 12-11 12-18 12-25 01-01 01-08 01-15 01-22 01-29

Month : ; Cumulative : from to

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Peer Group Statistics (Table 1)

Select LotNo : BD0728N (2024-08-20 ~ 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.: BD0728N)								Control D (Lot No.: BD0728D)							
		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	14.9	5	0.4	2.7	6.7	20	>6	4.6	4.7	5	0.2	4.3	10.7	20	4.1
Total	-	-	14.9	5	0.4	2.7	-	-	-	-	4.7	5	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 2024 v 09 v 01 v to 2026 v 01 v 31 v Change

UnitID	Reagent Kit (Code)	Control N (Lot No.: BD0728N)								Control D (Lot No.: BD0728D)							
		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	44	0.4	2.7	6.0	20	>6	4.6	4.7	44	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	93	0.4	2.7	-	-	-	-	4.7	93	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 (2026/01)								CUM (2024/09/01~2026/01/31)							
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
Lab033	5	15.1	14.9	5	0.4	2.7	6.7	20	>6	15.1	15.0	44	0.4	2.7	6.0	20	>6
Lab040	5	14.9	-	0	-	-	-	20	-	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	-	-	14.9	5	0.4	2.7	-	-	-	-	15.0	93	0.4	2.7	-	-	-

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

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

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

Month : 2026 01 Change Cumulative : from 2024 09 01 to 2026 01 31 Change

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Control D Month vs. Cumulative

		Control D (Lot No.: BD0728D)															
		Month (2026/01)								CUM (2024/09/01~2026/01/31)							
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
Lab033	5	4.6	4.7	5	0.2	4.3	10.7	20	4.1	4.6	4.7	44	0.2	4.3	10.7	20	4.1
Lab040	5	4.8	-	0	-	-	-	20	-	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	-	-	4.7	5	0.2	4.3	-	-	-	-	4.7	93	0.2	4.3	-	-	-

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

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

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

Month : 2026 01 Change Cumulative : from 2024 09 01 to 2026 01 31 Change

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Reagent Kit	Reagent Code
Medicon	5