

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

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

Print Table

Lab052

	Control N		Control D	
QC Control Lot No.	BD0728N		BD0728D	
Duration of the Analyzing	Month (2025/08)	CUM (2025/03/13~2025/08/29)	Month (2025/08)	CUM (2025/03/13~2025/08/29)
Runs (N)	4	20	4	20
Mean (U/gHb)	15.3	14.9	4.6	4.6
SD	0.3	0.4	0.1	0.1
CV (%)	2.0	2.7	2.2	2.2
Target Value (U/gHb)	14.9	14.9	4.6	4.6
Total Error (%)	6.6	5.4	4.3	4.3
TEa (%)	20	20	20	20
σ	>6	>6	>6	>6

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

Month : 2025 08 Change ; Cumulative : from 2025 03 13 to 2025 08 29 Change

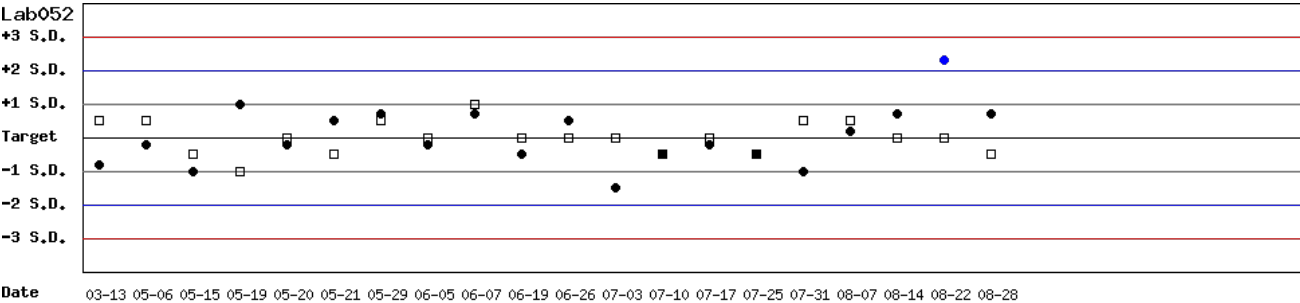
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Control N and Control D SDI
QC Chart

Lot No.: BD0728N ; Duration : 2025-03-13 to 2025-08-29 ; Target : 14.9 ; SD : 0.40 (●)

Lot No.: BD0728D ; Duration : 2025-03-13 to 2025-08-29 ; Target : 4.6 ; SD : 0.20 (□)

Lab052

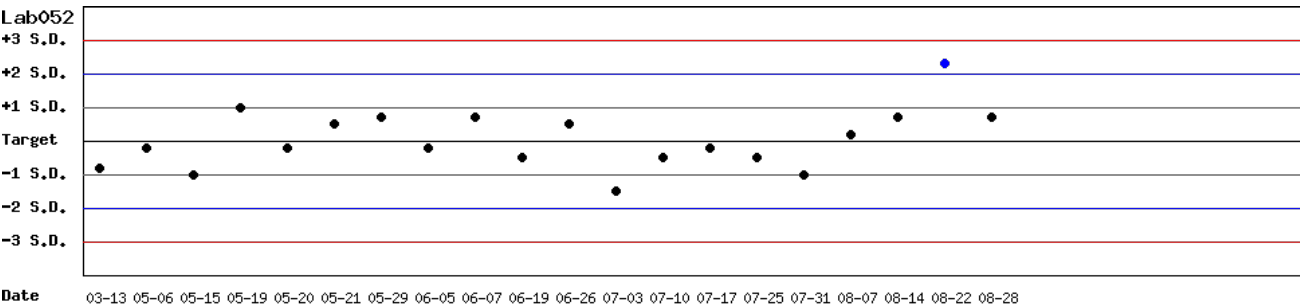


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Control N SDI QC Chart

Lot No.: BD0728N ; Duration : 2025-03-13 to 2025-08-29 ; Target : 14.9 ; SD : 0.40

Lab052

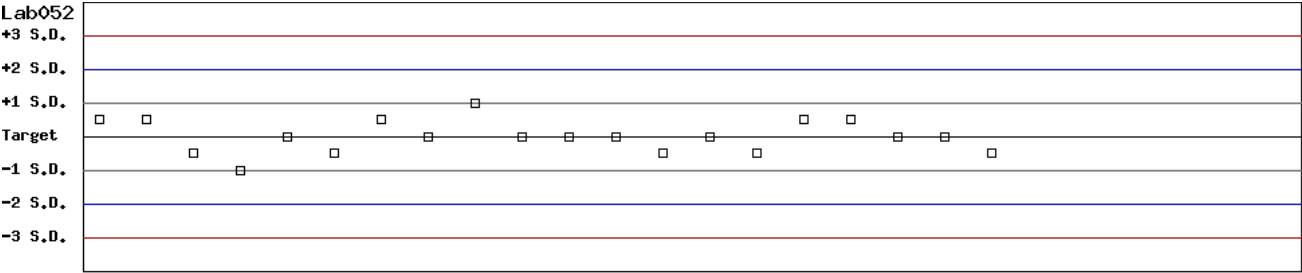


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Control D SDI QC Chart

Lot No.: BD0728D ; Duration : 2025-03-13 to 2025-08-29 ; Target : 4.6 ; SD : 0.20

Lab052



Date

03-13 05-06 05-15 05-19 05-20 05-21 05-29 06-05 06-07 06-19 06-26 07-03 07-10 07-17 07-25 07-31 08-07 08-14 08-22 08-28

Month :

2025

▼

08

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Change

; Cumulative : from

2025

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03

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13

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to

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08

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29

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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 08 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	14.5	4	0.1	0.7	5.4	20	>6	4.6	4.5	4	0.1	2.2	6.6	20	>6
Lab040	5	14.9	15.2	6	0.3	2.0	6.0	20	>6	4.8	4.8	6	0.2	4.2	8.3	20	4.8
Lab052	5	14.9	15.3	4	0.3	2.0	6.6	20	>6	4.6	4.6	4	0.1	2.2	4.3	20	>6
Total	-	-	15.0	14	0.4	2.7	-	-	-	-	4.7	14	0.2	4.3	-	-	-

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

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Cumulative

Cumulative : from 2024 09 01 to 2025 08 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	14.8	23	0.4	2.7	7.4	20	>6	4.6	4.6	23	0.2	4.3	8.7	20	4.7
Lab040	5	14.9	15.2	6	0.3	2.0	6.0	20	>6	4.8	4.8	6	0.2	4.2	8.3	20	4.8
Lab052	5	14.9	14.9	20	0.4	2.7	5.4	20	>6	4.6	4.6	20	0.1	2.2	4.3	20	>6
Total	-	-	14.9	49	0.4	2.7	-	-	-	-	4.6	49	0.2	4.3	-	-	-

Bias (%) = [(| Mean - Target |) / Target] x 100%
TE : Total Error(%) = Bias (%) + 2 x 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 (2025/08)										CUM (2024/09/01~2025/08/31)							
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	14.5	4	0.1	0.7	5.4	20	>6	15.1	14.8	23	0.4	2.7	7.4	20	>6
Lab040	5	14.9	15.2	6	0.3	2.0	6.0	20	>6	14.9	15.2	6	0.3	2.0	6.0	20	>6
Lab052	5	14.9	15.3	4	0.3	2.0	6.6	20	>6	14.9	14.9	20	0.4	2.7	5.4	20	>6
Total	-	-	15.0	14	0.4	2.7	-	-	-	-	14.9	49	0.4	2.7	-	-	-

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

Month : 2025 08 Change Cumulative : from 2024 09 01 to 2025 08 31 Change

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Control D Month vs.
Cumulative

Control D (Lot No.: BD0728D)																	
Month (2025/08)										CUM (2024/09/01~2025/08/31)							
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	4.5	4	0.1	2.2	6.6	20	>6	4.6	4.6	23	0.2	4.3	8.7	20	4.7
Lab040	5	4.8	4.8	6	0.2	4.2	8.3	20	4.8	4.8	4.8	6	0.2	4.2	8.3	20	4.8
Lab052	5	4.6	4.6	4	0.1	2.2	4.3	20	>6	4.6	4.6	20	0.1	2.2	4.3	20	>6
Total	-	-	4.7	14	0.2	4.3	-	-	-	-	4.6	49	0.2	4.3	-	-	-

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

Month : 2025 08 Change Cumulative : from 2024 09 01 to 2025 08 31 Change

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Reagent Kit	Reagent Code
Medicon	5