

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

Select LotNo : BJ0922N (2021-01-01 ~ 2100-12-31) Change

Print Table

Lab034

	Control N		Control D	
QC Control Lot No.	BJ0922N		BJ0922D	
Duration of the Analyzing	Month (2025/11)	CUM (2024/12/19~2025/11/27)	Month (2025/11)	CUM (2024/12/19~2025/11/27)
Runs (N)	2	26	2	26
Mean (U/gHb)	14.7	14.7	4.2	4.8
SD	-	0.7	-	0.9
CV (%)	-	4.8	-	18.8
Target Value (U/gHb)	13.8	13.8	4.7	4.7
Total Error (%)	-	16.0	-	39.6
TEa (%)	20	20	20	20
σ	-	2.8	-	1.0

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

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

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

Month : 2025 11 Change ; Cumulative : from 2024 12 19 to 2025 11 27 Change

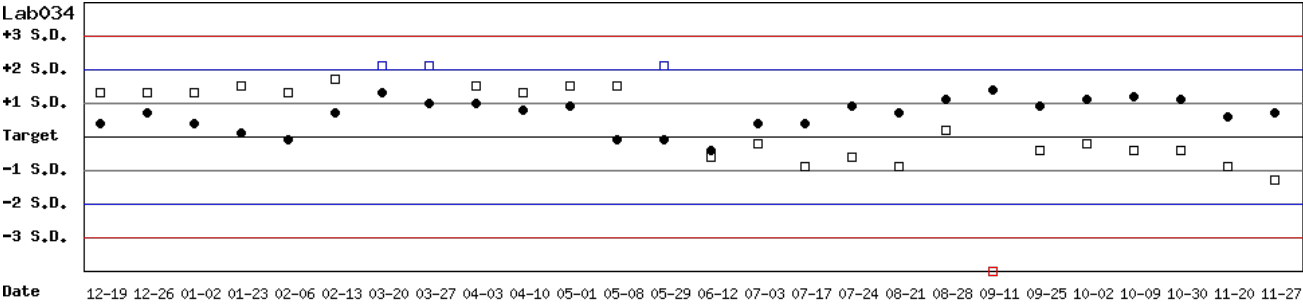
TOP

Control N and Control D SDI
QC Chart

Lot No.: BJ0922N ; Duration : 2024-12-19 to 2025-11-27 ; Target : 13.8 ; SD : 1.38 (●)

Lot No.: BJ0922D ; Duration : 2024-12-19 to 2025-11-27 ; Target : 4.7 ; SD : 0.47 (□)

Lab034

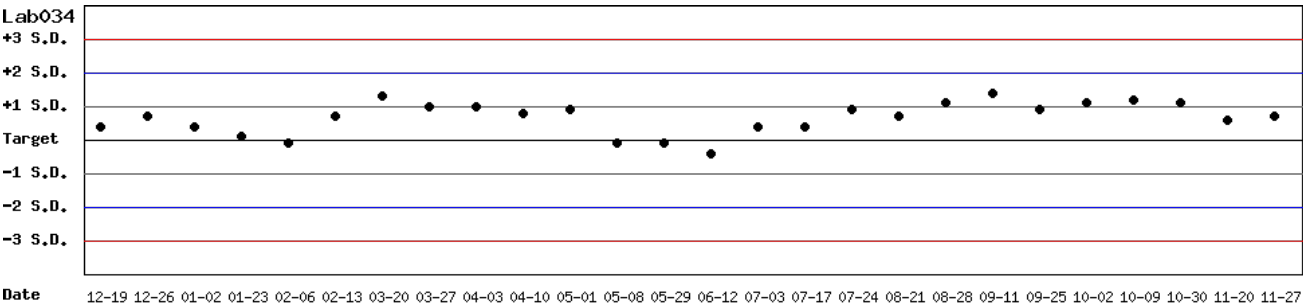


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Control N SDI QC Chart

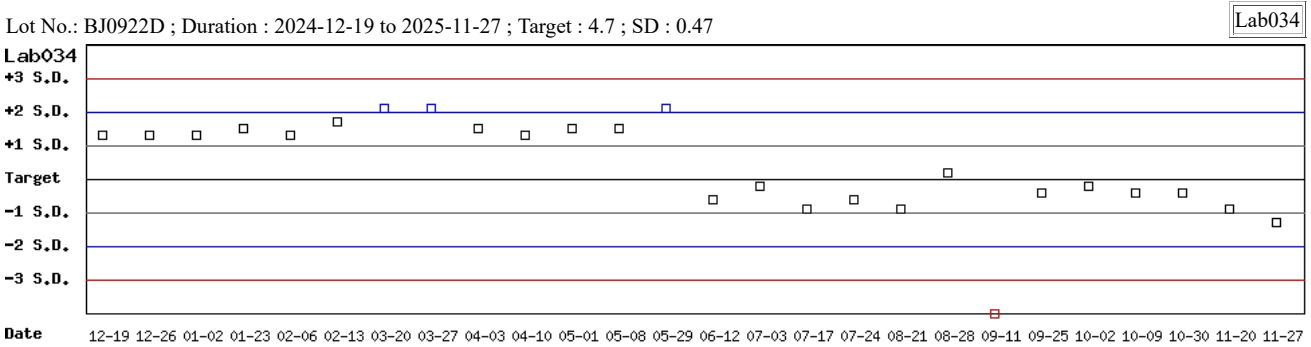
Lot No.: BJ0922N ; Duration : 2024-12-19 to 2025-11-27 ; Target : 13.8 ; SD : 1.38

Lab034



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Control D SDI QC Chart



Month : 2025 11 Change ; Cumulative : from 2024 12 19 to 2025 11 27 Change

Peer Group Statistics (Table 1)

Select LotNo : BJ0922N (2021-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

[Print Table 1](#)

Monthly

Month : 2025 11 Change

		Control N (Lot No.: BJ0922N)										Control D (Lot No.: BJ0922D)							
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	
Lab034	5	13.8	14.7	2	-	-	-	20	-		4.7	4.2	2	-	-	-	20	-	
Lab043	5	13.2	13.3	2	-	-	-	20	-		4.2	4.8	2	-	-	-	20	-	
Lab049	5	13.8	13.3	4	0.3	2.3	8.1	20	>6		4.7	4.8	4	0.2	4.2	10.5	20	4.3	
Total	-	-	13.6	8	0.7	5.1	-	-	-		-	4.6	8	0.3	6.5	-	-	-	

Bias (%) = $\left[\left(\left| \text{Mean} - \text{Target} \right| \right) / \text{Target} \right] \times 100\%$

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

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

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Cumulative

Cumulative : from 2021 01 01 to 2025 11 30 Change

		Control N (Lot No.: BJ0922N)									Control D (Lot No.: BJ0922D)								
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	16.2	15.3	113	0.4	2.6	10.8	20	5.6		5.5	5.4	113	0.1	1.9	5.5	20	>6	
Lab019	5	14.7	14.6	177	0.5	3.4	7.5	20	5.7		5.0	4.8	177	0.2	4.2	12.3	20	3.8	
Lab020	5	14.4	14.4	90	0.5	3.5	6.9	20	5.7		4.6	4.7	90	0.2	4.3	10.7	20	4.1	
Lab022	5	14.4	14.4	27	0.5	3.5	6.9	20	5.7		4.6	4.7	27	0.3	6.4	14.9	20	2.8	
Lab025	5	14.4	14.2	13	0.5	3.5	8.4	20	5.3		5.4	5.1	13	0.3	5.9	17.3	20	2.4	
Lab028	5	15.2	15.0	66	0.9	6.0	13.3	20	3.1		4.9	5.1	66	0.3	5.9	15.8	20	2.7	
Lab032	5	14.9	14.3	153	0.4	2.8	9.6	20	5.7		4.8	4.5	153	0.2	4.4	15.1	20	3.1	
Lab033	5	13.8	13.6	81	0.7	5.1	11.7	20	3.6		4.7	4.6	81	0.3	6.5	15.2	20	2.7	
Lab034	5	13.8	14.5	51	0.6	4.1	13.3	20	3.6		4.7	5.0	51	0.7	14.0	34.4	20	1.0	
Lab037	5	13.8	14.5	59	0.5	3.4	12.0	20	4.4		4.7	4.7	59	0.2	4.3	8.5	20	4.7	
Lab040	5	14.4	14.8	169	0.2	1.4	5.5	20	>6		4.6	4.6	169	0.1	2.2	4.3	20	>6	
Lab043	5	13.2	14.1	216	1.0	7.1	21.0	20	1.9		4.2	4.7	216	0.3	6.4	24.7	20	1.3	
Lab049	5	13.8	14.4	285	0.6	4.2	12.7	20	3.7		4.7	4.7	285	0.3	6.4	12.8	20	3.1	
Lab050	5	13.8	14.4	116	0.6	4.2	12.7	20	3.7		4.7	5.1	116	0.5	9.8	28.1	20	1.2	
Total	-	-	14.5	1616	0.7	4.8	-	-	-		-	4.8	1616	0.4	8.3	-	-	-	

Bias (%) = $\left[\left(\left| \text{Mean} - \text{Target} \right| \right) / \text{Target} \right] \times 100\%$

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 : BJ0922N (2021-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 2

Control N Month vs. Cumulative

		Control N (Lot No.: BJ0922N)																
		Month (2025/11)									CUM (2021/01/01~2025/11/30)							
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	16.2	-	0	-	-	-	20	-		16.2	15.3	113	0.4	2.6	10.8	20	5.6
Lab019	5	14.7	-	0	-	-	-	20	-		14.7	14.6	177	0.5	3.4	7.5	20	5.7
Lab020	5	14.4	-	0	-	-	-	20	-		14.4	14.4	90	0.5	3.5	6.9	20	5.7
Lab022	5	14.4	-	0	-	-	-	20	-		14.4	14.4	27	0.5	3.5	6.9	20	5.7
Lab025	5	14.4	-	0	-	-	-	20	-		14.4	14.2	13	0.5	3.5	8.4	20	5.3
Lab028	5	15.2	-	0	-	-	-	20	-		15.2	15.0	66	0.9	6.0	13.3	20	3.1
Lab032	5	14.9	-	0	-	-	-	20	-		14.9	14.3	153	0.4	2.8	9.6	20	5.7
Lab033	5	13.8	-	0	-	-	-	20	-		13.8	13.6	81	0.7	5.1	11.7	20	3.6
Lab034	5	13.8	14.7	2	-	-	-	20	-		13.8	14.5	51	0.6	4.1	13.3	20	3.6
Lab037	5	13.8	-	0	-	-	-	20	-		13.8	14.5	59	0.5	3.4	12.0	20	4.4
Lab040	5	14.4	-	0	-	-	-	20	-		14.4	14.8	169	0.2	1.4	5.5	20	>6
Lab043	5	13.2	13.3	2	-	-	-	20	-		13.2	14.1	216	1.0	7.1	21.0	20	1.9
Lab049	5	13.8	13.3	4	0.3	2.3	8.1	20	>6		13.8	14.4	285	0.6	4.2	12.7	20	3.7
Lab050	5	13.8	-	0	-	-	-	20	-		13.8	14.4	116	0.6	4.2	12.7	20	3.7
Total	-	-	13.6	8	0.7	5.1	-	-	-		-	14.5	1616	0.7	4.8	-	-	-

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

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

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

Month : 2025 11 Change

Cumulative : from 2021 01 01 to 2025 11 30 Change

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Control D Month vs. Cumulative

		Control D (Lot No.: BJ0922D)																
		Month (2025/11)									CUM (2021/01/01~2025/11/30)							
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	5.5	-	0	-	-	-	20	-		5.5	5.4	113	0.1	1.9	5.5	20	>6
Lab019	5	5.0	-	0	-	-	-	20	-		5.0	4.8	177	0.2	4.2	12.3	20	3.8
Lab020	5	4.6	-	0	-	-	-	20	-		4.6	4.7	90	0.2	4.3	10.7	20	4.1
Lab022	5	4.6	-	0	-	-	-	20	-		4.6	4.7	27	0.3	6.4	14.9	20	2.8
Lab025	5	5.4	-	0	-	-	-	20	-		5.4	5.1	13	0.3	5.9	17.3	20	2.4
Lab028	5	4.9	-	0	-	-	-	20	-		4.9	5.1	66	0.3	5.9	15.8	20	2.7
Lab032	5	4.8	-	0	-	-	-	20	-		4.8	4.5	153	0.2	4.4	15.1	20	3.1
Lab033	5	4.7	-	0	-	-	-	20	-		4.7	4.6	81	0.3	6.5	15.2	20	2.7
Lab034	5	4.7	4.2	2	-	-	-	20	-		4.7	5.0	51	0.7	14.0	34.4	20	1.0
Lab037	5	4.7	-	0	-	-	-	20	-		4.7	4.7	59	0.2	4.3	8.5	20	4.7
Lab040	5	4.6	-	0	-	-	-	20	-		4.6	4.6	169	0.1	2.2	4.3	20	>6
Lab043	5	4.2	4.8	2	-	-	-	20	-		4.2	4.7	216	0.3	6.4	24.7	20	1.3
Lab049	5	4.7	4.8	4	0.2	4.2	10.5	20	4.3		4.7	4.7	285	0.3	6.4	12.8	20	3.1
Lab050	5	4.7	-	0	-	-	-	20	-		4.7	5.1	116	0.5	9.8	28.1	20	1.2
Total	-	-	4.6	8	0.3	6.5	-	-	-		-	4.8	1616	0.4	8.3	-	-	-

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

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

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

Month : 2025 11 Change

Cumulative : from 2021 01 01 to 2025 11 30 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5