

Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - February 2025 -

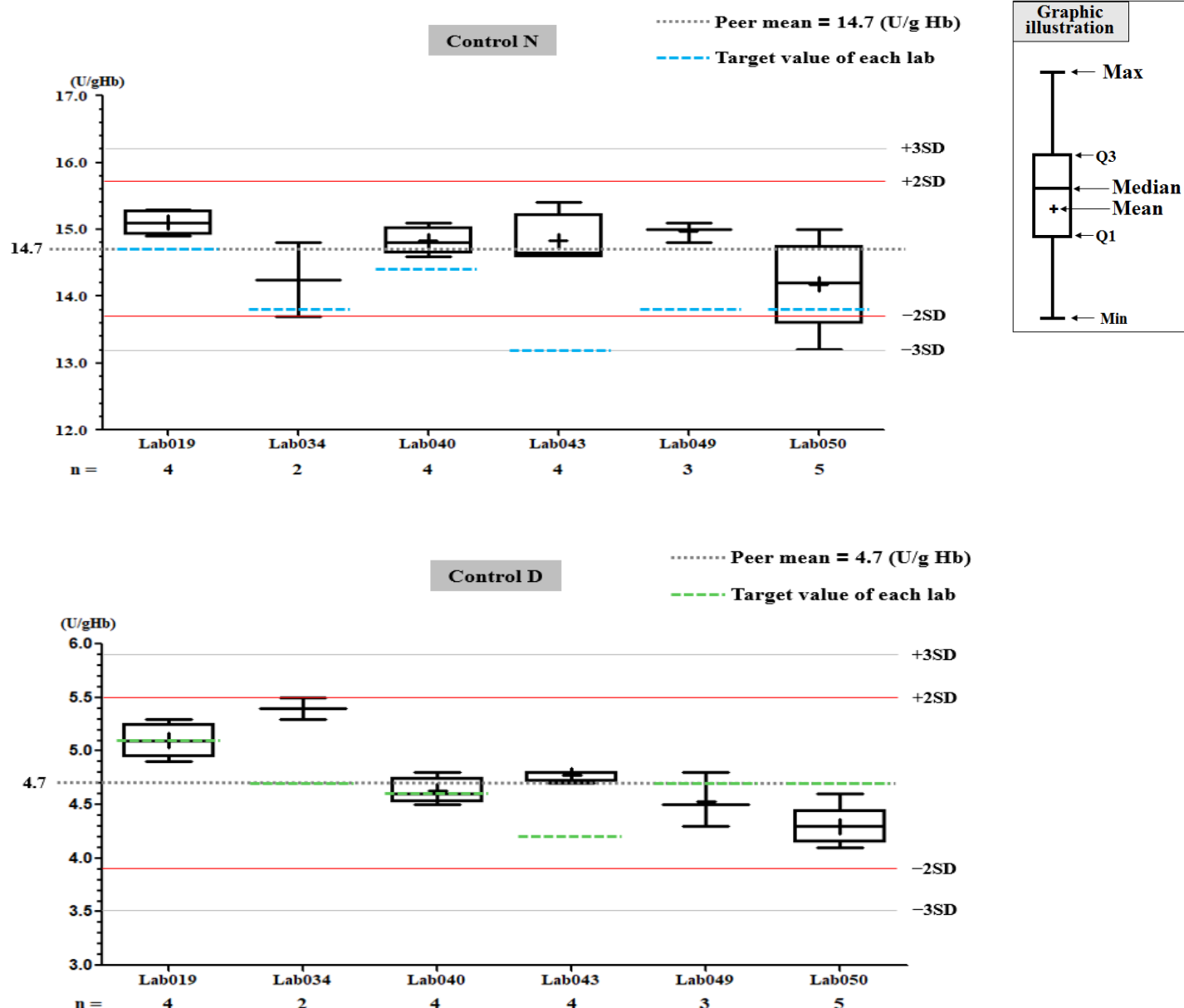
I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:BJ0922N)	Control D (Lot No.: BJ0922D)
Labs	6	6
Received results number (n)	22	22
Median	14.8 (U/g Hb)	4.8 (U/g Hb)
Mean	14.7 (U/g Hb)	4.7 (U/g Hb)
SD	0.5	0.4
CV	3.4%	8.5%
Range of G6PD	13.2 ~ 15.4 (U/g Hb)	4.1 ~ 5.5 (U/g Hb)
Range of Hb	1.9 ~ 2.5 (g/dL)	1.7 ~ 2.2 (g/dL)

*The statistic results are calculated from all labs reported in this month

** G6PD Method = Medicon reagent kit, 37°C

II. The distribution of G6PD reported for each lab in this survey



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

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

Print Table

Lab043

	Control N		Control D	
QC Control Lot No.	BJ0922N		BJ0922D	
Duration of the Analyzing	Month (2025/02)	CUM (2024/09/05~2025/02/28)	Month (2025/02)	CUM (2024/09/05~2025/02/28)
Runs (N)	4	26	4	26
Mean (U/gHb)	14.8	14.4	4.8	4.7
SD	0.4	0.5	0.1	0.2
CV (%)	2.7	3.5	2.1	4.3
Target Value (U/gHb)	13.2	13.2	4.2	4.2
Total Error (%)	17.5	16.0	18.5	20.4
TEa (%)	20	20	20	20
σ	2.9	3.1	2.7	1.9

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

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

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

Month : 2025 02 Change ; Cumulative : from 2024 09 05 to 2025 02 28 Change

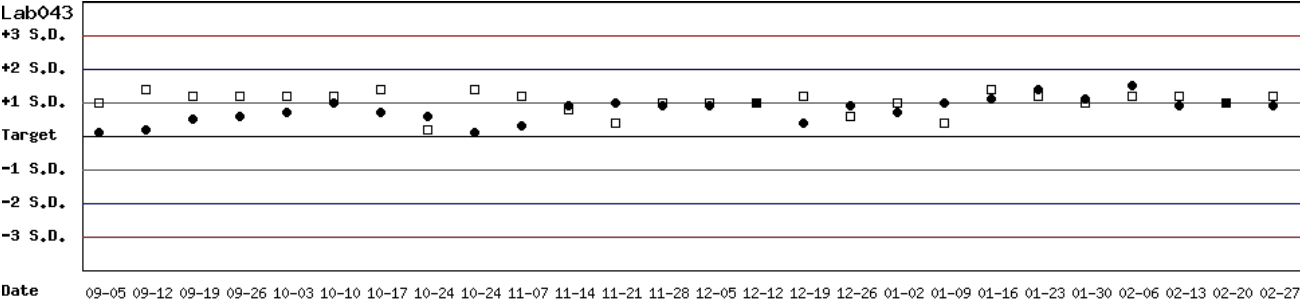
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Control N and Control D SDI
QC Chart

Lot No.: BJ0922N ; Duration : 2024-09-05 to 2025-02-28 ; Target : 13.2 ; SD : 1.50 (●)

Lot No.: BJ0922D ; Duration : 2024-09-05 to 2025-02-28 ; Target : 4.2 ; SD : 0.50 (□)

Lab043

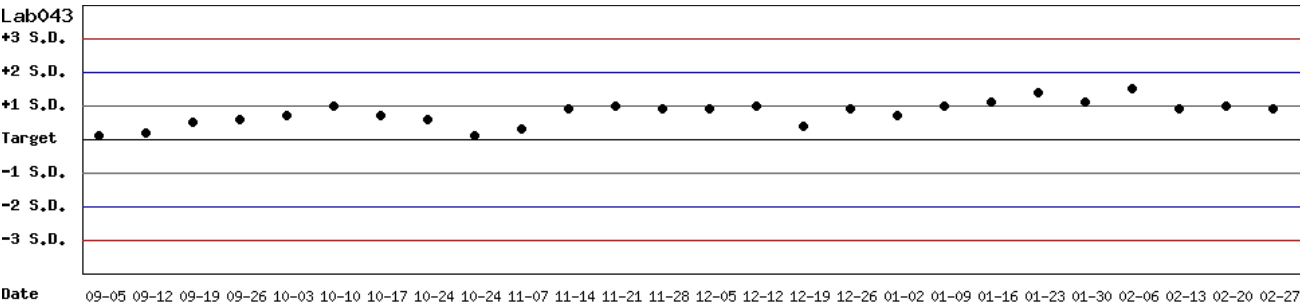


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Control N SDI QC Chart

Lot No.: BJ0922N ; Duration : 2024-09-05 to 2025-02-28 ; Target : 13.2 ; SD : 1.50

Lab043



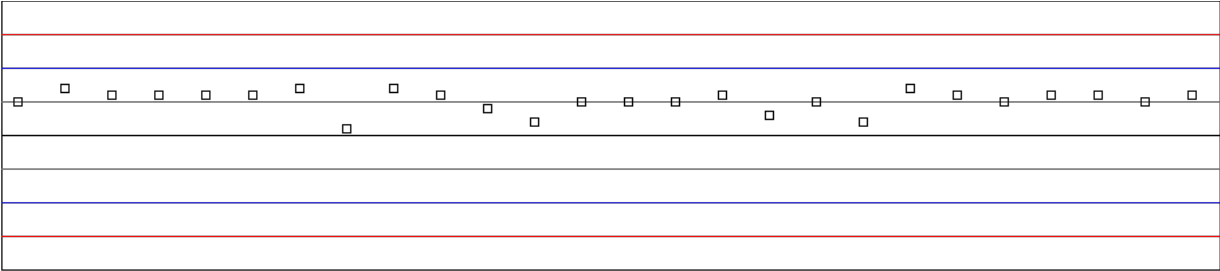
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Control D SDI QC Chart

Lab043

Lot No.: BJ0922D ; Duration : 2024-09-05 to 2025-02-28 ; Target : 4.2 ; SD : 0.50

Lab043
+3 S.D.
+2 S.D.
+1 S.D.
Target
-1 S.D.
-2 S.D.
-3 S.D.



Date 09-05 09-12 09-19 09-26 10-03 10-10 10-17 10-24 10-24 11-07 11-14 11-21 11-28 12-05 12-12 12-19 12-26 01-02 01-09 01-16 01-23 01-30 02-06 02-13 02-20 02-27

Month : 2025 02 Change ; Cumulative : from 2024 09 05 to 2025 02 28 Change

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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 02 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
Lab019	5	14.7	15.1	4	0.2	1.3	5.4	20	>6	5.0	5.1	4	0.2	3.9	9.8	20	4.6
Lab034	5	13.8	14.3	2	-	-	-	20	-	4.7	5.4	2	-	-	-	20	-
Lab040	5	14.4	14.8	4	0.2	1.4	5.5	20	>6	4.6	4.6	4	0.1	2.2	4.3	20	>6
Lab043	5	13.2	14.8	4	0.4	2.7	17.5	20	2.9	4.2	4.8	4	0.1	2.1	18.5	20	2.7
Lab049	5	13.8	15.0	3	0.2	1.3	11.4	20	>6	4.7	4.5	3	0.3	6.7	17.6	20	2.3
Lab050	5	13.8	14.2	5	0.7	4.9	12.8	20	3.5	4.7	4.3	5	0.2	4.7	17.8	20	2.4
Total	-	-	14.7	22	0.5	3.4	-	-	-	-	4.7	22	0.4	8.5	-	-	-

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

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

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

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Cumulative

Cumulative : from 2021 01 01 to 2025 02 28 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	153	0.6	4.1	8.9	20	4.7	5.0	4.8	153	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	14.3	31	0.5	3.5	10.6	20	4.7	4.7	5.2	31	0.2	3.8	18.3	20	2.5
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	148	0.2	1.4	5.5	20	>6	4.6	4.6	148	0.1	2.2	4.3	20	>6
Lab043	5	13.2	14.0	179	1.0	7.1	20.3	20	2.0	4.2	4.6	179	0.4	8.7	26.9	20	1.2
Lab049	5	13.8	14.4	247	0.6	4.2	12.7	20	3.7	4.7	4.7	247	0.3	6.4	12.8	20	3.1
Lab050	5	13.8	14.5	74	0.6	4.1	13.3	20	3.6	4.7	5.0	74	0.5	10.0	26.4	20	1.4
Total	-	-	14.5	1434	0.7	4.8	-	-	-	-	4.8	1434	0.4	8.3	-	-	-

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 :
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 (2024/02)								CUM (2021/01/01~2025/02/28)							
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	15.1	9	0.1	0.7	8.1	20	>6	16.2	15.3	113	0.4	2.6	10.8	20	5.6
Lab019	5	14.7	14.7	4	0.3	2.0	4.1	20	>6	14.7	14.6	153	0.6	4.1	8.9	20	4.7
Lab020	5	14.4	13.8	1	-	-	-	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	14.5	4	0.4	2.8	8.2	20	>6	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	-	0	-	-	-	20	-	13.8	14.3	31	0.5	3.5	10.6	20	4.7
Lab037	5	13.8	-	0	-	-	-	20	-	13.8	14.5	59	0.5	3.4	12.0	20	4.4
Lab040	5	14.4	15.0	4	0.2	1.3	6.8	20	>6	14.4	14.8	148	0.2	1.4	5.5	20	>6
Lab043	5	13.2	14.3	5	0.8	5.6	19.5	20	2.1	13.2	14.0	179	1.0	7.1	20.3	20	2.0
Lab049	5	13.8	13.9	4	0.3	2.2	5.0	20	>6	13.8	14.4	247	0.6	4.2	12.7	20	3.7
Lab050	5	13.8	13.3	1	-	-	-	20	-	13.8	14.5	74	0.6	4.1	13.3	20	3.6
Total	-	-	14.6	32	0.6	4.1	-	-	-	-	14.5	1434	0.7	4.8	-	-	-

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

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

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

Month :
2024
02
Change

Cumulative : from
2021
01
01
to
2025
02
28
Change

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Control D Month vs. Cumulative

		Control D (Lot No.: BJ0922D)															
		Month (2024/02)								CUM (2021/01/01~2025/02/28)							
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	5.4	9	0.1	1.9	5.5	20	>6	5.5	5.4	113	0.1	1.9	5.5	20	>6
Lab019	5	5.0	5.0	4	0.1	2.0	4.0	20	>6	5.0	4.8	153	0.2	4.2	12.3	20	3.8
Lab020	5	4.6	4.8	1	-	-	-	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	4.4	4	0.1	2.3	12.9	20	5.1	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	-	0	-	-	-	20	-	4.7	5.2	31	0.2	3.8	18.3	20	2.5
Lab037	5	4.7	-	0	-	-	-	20	-	4.7	4.7	59	0.2	4.3	8.5	20	4.7
Lab040	5	4.6	4.7	4	0.1	2.1	6.4	20	>6	4.6	4.6	148	0.1	2.2	4.3	20	>6
Lab043	5	4.2	4.7	5	0.1	2.1	16.2	20	3.9	4.2	4.6	179	0.4	8.7	26.9	20	1.2
Lab049	5	4.7	5.0	4	0.1	2.0	10.4	20	>6	4.7	4.7	247	0.3	6.4	12.8	20	3.1
Lab050	5	4.7	5.1	1	-	-	-	20	-	4.7	5.0	74	0.5	10.0	26.4	20	1.4
Total	-	-	4.9	32	0.3	6.1	-	-	-	-	4.8	1434	0.4	8.3	-	-	-

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

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

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

Month :
2024
02
Change

Cumulative : from
2021
01
01
to
2025
02
28
Change

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Reagent Kit	Reagent Code
Medicon	5