

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

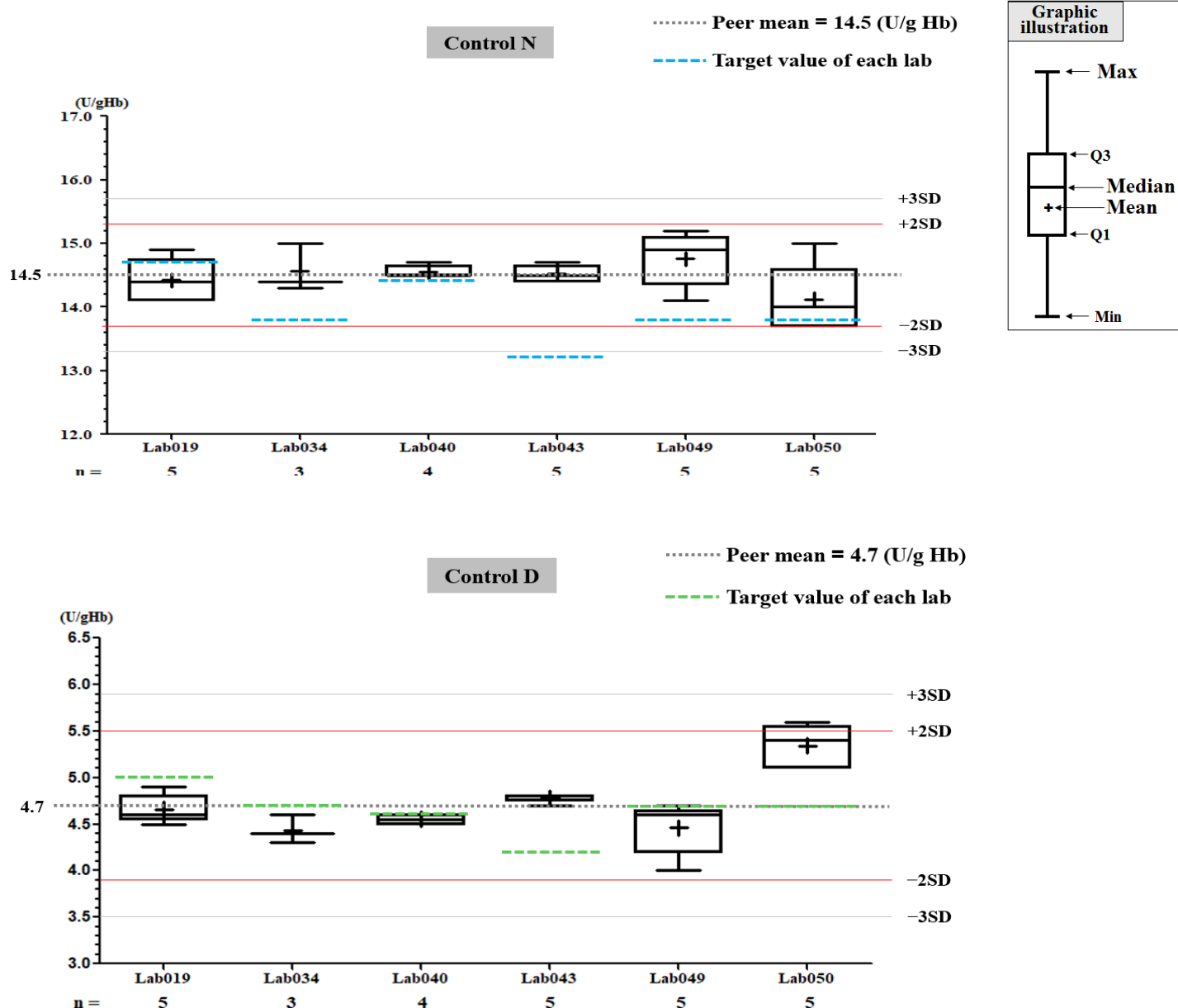
I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:BJ0922N)	Control D (Lot No.: BJ0922D)
Labs	6	6
Received results number (n)	27	27
Median	14.5 (U/g Hb)	4.6 (U/g Hb)
Mean	14.5 (U/g Hb)	4.7 (U/g Hb)
SD	0.4	0.4
CV	2.8%	8.5%
Range of G6PD	13.7 ~ 15.2 (U/g Hb)	4.0 ~ 5.6 (U/g Hb)
Range of Hb	2.0 ~ 2.6 (g/dL)	1.8 ~ 2.4 (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



G6PD 定量檢驗內部品管統計結果及 SDI 分佈圖

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

列印圖表

檢驗單位：Lab040

	Control N		Control D	
QC Control Lot No.	BJ0922N		BJ0922D	
檢驗期間	Month (2025/07)	CUM (2025/01/31~2025/07/31)	Month (2025/07)	CUM (2025/01/31~2025/07/31)
累計點數 (N)	4	26	4	26
累計平均值 (Mean) U/gHb	14.6	14.8	4.6	4.6
累計標準差 (SD)	0.1	0.2	0.1	0.1
累計變異係數 (CV) %	0.7	1.4	2.2	2.2
目標值 (Target) U/gHb	14.4	14.4	4.6	4.6
總誤差 (TE) %	2.8	5.5	4.3	4.3
可容許總誤差 (TEa) %	20	20	20	20
σ	>6	>6	>6	>6

誤差 (Bias)% = { [| 累計平均值 (Mean) - 目標值 (Target) |] / 目標值 (Target) } x 100%
總誤差 (TE, Total Error)% = 誤差 (Bias)% + 2 x 累計變異係數 (CV)
σ (Sigma) = (TEa% - 誤差 (Bias)%) / 累計變異係數 (CV)

月統計：2025 07 Change ； 累計期間 (CUM)：自 2025 01 31 至 2025 07 31 Change

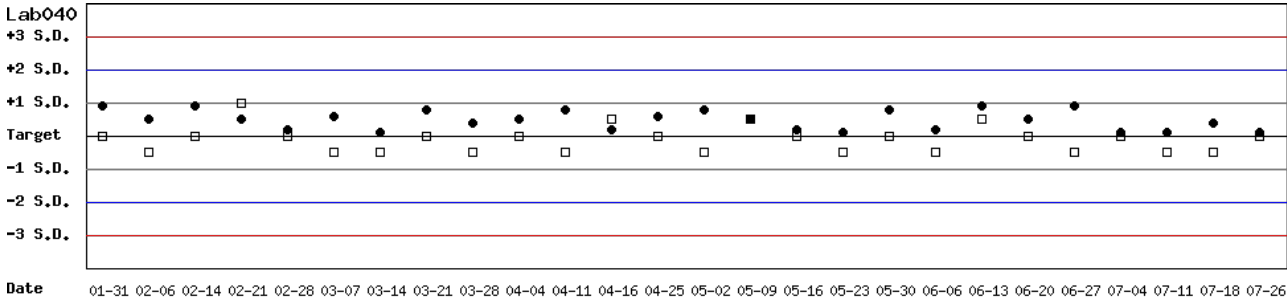
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Control N 及 Control D SDI
分佈圖

Lot No.: BJ0922N ; 檢驗期間：2025-01-31 至 2025-07-31 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.80 (●)

Lot No.: BJ0922D ; 檢驗期間：2025-01-31 至 2025-07-31 ; 目標值 (Target) : 4.6 ; 參考標準差 (SD) : 0.20 (□)

單位：Lab040



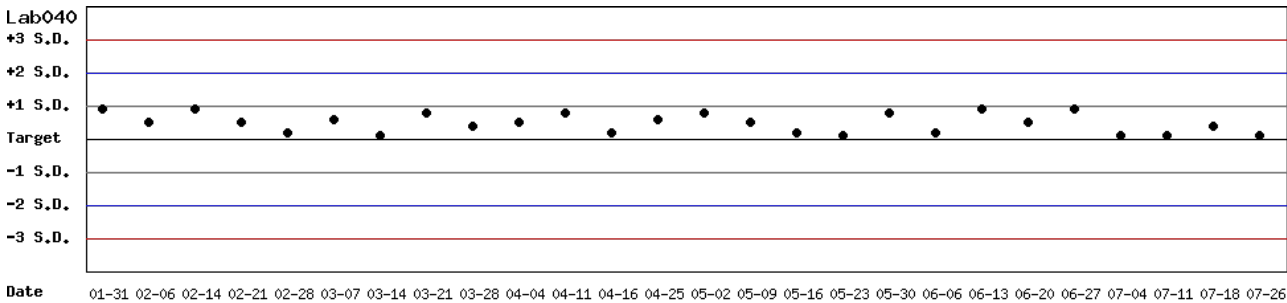
月統計：2025 07 Change ； 累計期間 (CUM)：自 2025 01 31 至 2025 07 31 Change

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Control N SDI 分佈圖

Lot No.: BJ0922N ; 檢驗期間：2025-01-31 至 2025-07-31 ; 目標值 (Target) : 14.4 ; 參考標準差 (SD) : 0.80

單位：Lab040



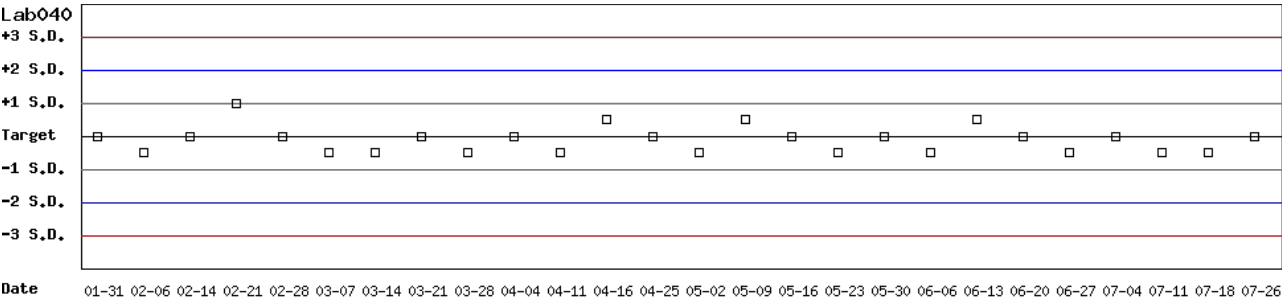
月統計：2025 07 Change ； 累計期間 (CUM)：自 2025 01 31 至 2025 07 31 Change

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Control D SDI 分佈圖

Lot No.: BJ0922D ; 檢驗期間 : 2025-01-31 至 2025-07-31 ; 目標值 (Target) : 4.6 ; 參考標準差 (SD) : 0.20

單位 : Lab040



月統計 : 2025 ▾ 07 ▾ Change ; 累計期間 (CUM) : 自 2025 ▾ 01 ▾ 31 ▾ 至 2025 ▾ 07 ▾ 31 ▾ 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 07 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	14.4	5	0.3	2.1	6.2	20	>6		5.0	4.7	5	0.2	4.3	14.5	20	3.3
Lab034	5	13.8	14.6	3	0.4	2.7	11.3	20	5.3		4.7	4.4	3	0.2	4.5	15.5	20	3.0
Lab040	5	14.4	14.6	4	0.1	0.7	2.8	20	>6		4.6	4.6	4	0.1	2.2	4.3	20	>6
Lab043	5	13.2	14.5	5	0.1	0.7	11.2	20	>6		4.2	4.8	5	0.0	0.0	14.3	20	>6
Lab049	5	13.8	14.8	5	0.4	2.7	12.7	20	4.7		4.7	4.5	5	0.3	6.7	17.6	20	2.3
Lab050	5	13.8	14.1	5	0.5	3.5	9.3	20	5.1		4.7	5.3	5	0.2	3.8	20.3	20	1.9
Total	-	-	14.5	27	0.4	2.8	-	-	-		-	4.7	27	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 07 31 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	175	0.5	3.4	7.5	20	5.7		5.0	4.8	175	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	14.4	42	0.6	4.2	12.7	20	3.7		4.7	5.2	42	0.3	5.8	22.2	20	1.6
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	14.0	201	1.0	7.1	20.3	20	2.0		4.2	4.7	201	0.4	8.5	28.9	20	1.0
Lab049	5	13.8	14.4	269	0.6	4.2	12.7	20	3.7		4.7	4.7	269	0.3	6.4	12.8	20	3.1
Lab050	5	13.8	14.4	103	0.6	4.2	12.7	20	3.7		4.7	5.1	103	0.5	9.8	28.1	20	1.2
Total	-	-	14.5	1561	0.7	4.8	-	-	-		-	4.8	1561	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 (2025/07)										CUM (2021/01/01~2025/07/31)							
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
Lab018	5	16.2	-	0	-	-	-	20	-	16.2	15.3	113	0.4	2.6	10.8	20	5.6
Lab019	5	14.7	14.4	5	0.3	2.1	6.2	20	>6	14.7	14.6	175	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	14.6	3	0.4	2.7	11.3	20	5.3	13.8	14.4	42	0.6	4.2	12.7	20	3.7
Lab037	5	13.8	-	0	-	-	-	20	-	13.8	14.5	59	0.5	3.4	12.0	20	4.4
Lab040	5	14.4	14.6	4	0.1	0.7	2.8	20	>6	14.4	14.8	169	0.2	1.4	5.5	20	>6
Lab043	5	13.2	14.5	5	0.1	0.7	11.2	20	>6	13.2	14.0	201	1.0	7.1	20.3	20	2.0
Lab049	5	13.8	14.8	5	0.4	2.7	12.7	20	4.7	13.8	14.4	269	0.6	4.2	12.7	20	3.7
Lab050	5	13.8	14.1	5	0.5	3.5	9.3	20	5.1	13.8	14.4	103	0.6	4.2	12.7	20	3.7
Total	-	-	14.5	27	0.4	2.8	-	-	-	-	14.5	1561	0.7	4.8	-	-	-

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

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

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

Month : 2025 07 Change

Cumulative : from 2021 01 01 to 2025 07 31 Change

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Control D Month vs. Cumulative

Control D (Lot No.: BJ0922D)																	
Month (2025/07)										CUM (2021/01/01~2025/07/31)							
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
Lab018	5	5.5	-	0	-	-	-	20	-	5.5	5.4	113	0.1	1.9	5.5	20	>6
Lab019	5	5.0	4.7	5	0.2	4.3	14.5	20	3.3	5.0	4.8	175	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	4.4	3	0.2	4.5	15.5	20	3.0	4.7	5.2	42	0.3	5.8	22.2	20	1.6
Lab037	5	4.7	-	0	-	-	-	20	-	4.7	4.7	59	0.2	4.3	8.5	20	4.7
Lab040	5	4.6	4.6	4	0.1	2.2	4.3	20	>6	4.6	4.6	169	0.1	2.2	4.3	20	>6
Lab043	5	4.2	4.8	5	0.0	0.0	14.3	20	>6	4.2	4.7	201	0.4	8.5	28.9	20	1.0
Lab049	5	4.7	4.5	5	0.3	6.7	17.6	20	2.3	4.7	4.7	269	0.3	6.4	12.8	20	3.1
Lab050	5	4.7	5.3	5	0.2	3.8	20.3	20	1.9	4.7	5.1	103	0.5	9.8	28.1	20	1.2
Total	-	-	4.7	27	0.4	8.5	-	-	-	-	4.8	1561	0.4	8.3	-	-	-

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

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

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

Month : 2025 07 Change

Cumulative : from 2021 01 01 to 2025 07 31 Change

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Reagent Kit	Reagent Code
Medicon	5