

# Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - June 2024 -

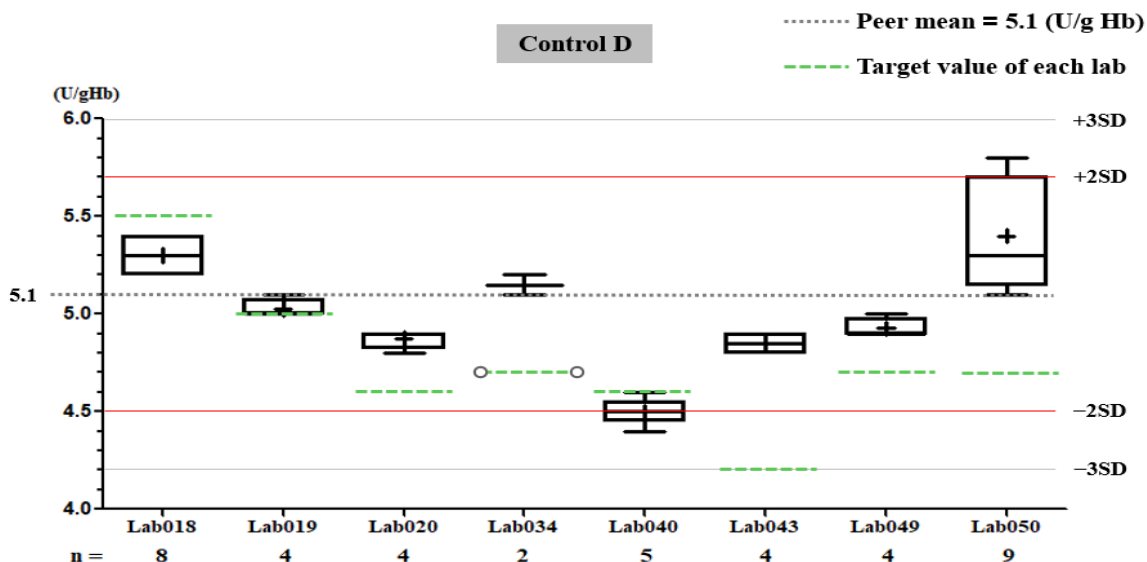
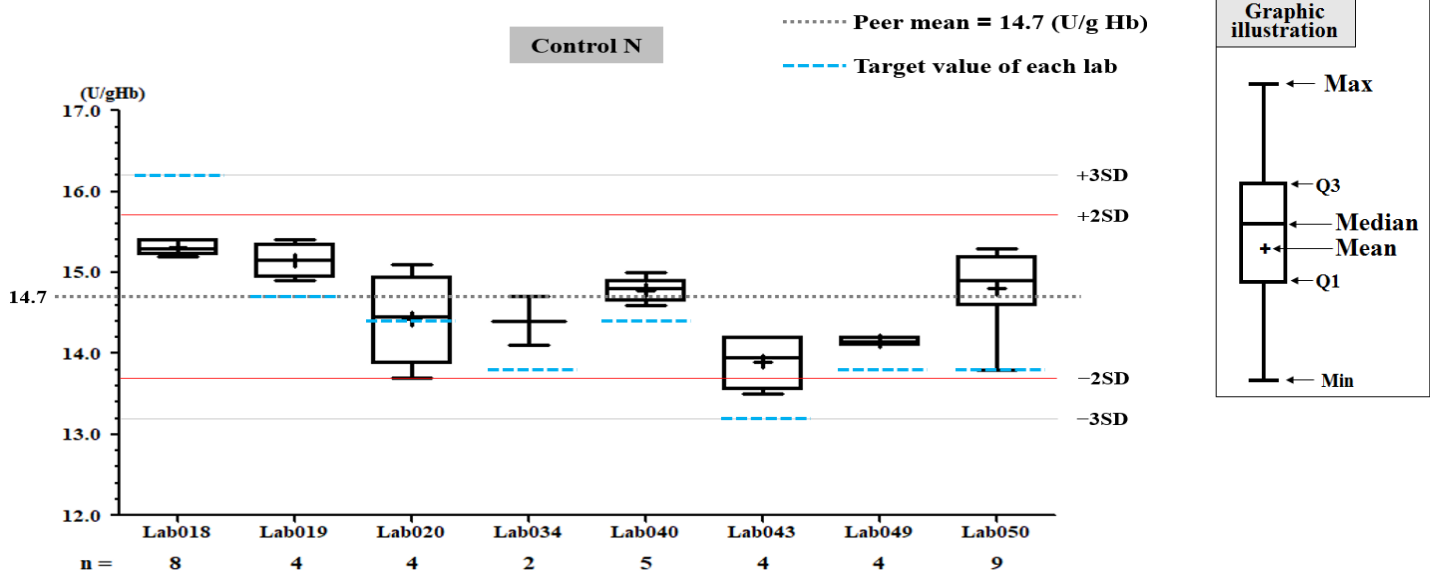
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:BJ0922N)	Control D (Lot No.: BJ0922D)
Labs	8	8
Received results number (n)	40	40
Median	14.8 (U/g Hb)	5.1 (U/g Hb)
Mean	14.7 (U/g Hb)	5.1 (U/g Hb)
SD	0.5	0.3
CV	3.4%	5.9%
Range of G6PD	13.5 ~ 15.4 (U/g Hb)	4.4 ~ 5.8 (U/g Hb)
Range of Hb	1.9 ~ 2.6 (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



# 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 : Lab034

QC Control Lot No.	Control N		Control D	
	BJ0922N		BJ0922D	
檢驗期間	Month (2024/06)	CUM (2024/03/07~2024/06/30)	Month (2024/06)	CUM (2024/03/07~2024/06/30)
累計點數 (N)	2	11	2	11
累計平均值 (Mean) U/gHb	14.4	14.4	5.2	5.2
累計標準差 (SD)	-	0.4	-	0.2
累計變異係數 (CV) %	-	2.8	-	3.8
目標值 (Target) U/gHb	13.8	13.8	4.7	4.7
總誤差 (TE) %	-	9.9	-	18.3
可容許總誤差 (TEa) %	20	20	20	20
$\sigma$	-	5.6	-	2.5

誤差 (Bias)% =  $\{ [ | \text{累計平均值 (Mean)} - \text{目標值 (Target)} | ] / \text{目標值 (Target)} \} \times 100\%$

總誤差 (TE, Total Error)% = 誤差 (Bias)% + 2 × 累計變異係數 (CV)

$\sigma$  (Sigma) = (TEa% - 誤差 (Bias)% ) / 累計變異係數 (CV)

月統計 : 2024 06 Change ; 累計期間 (CUM) : 自 2024 03 07 至 2024 06 30 Change

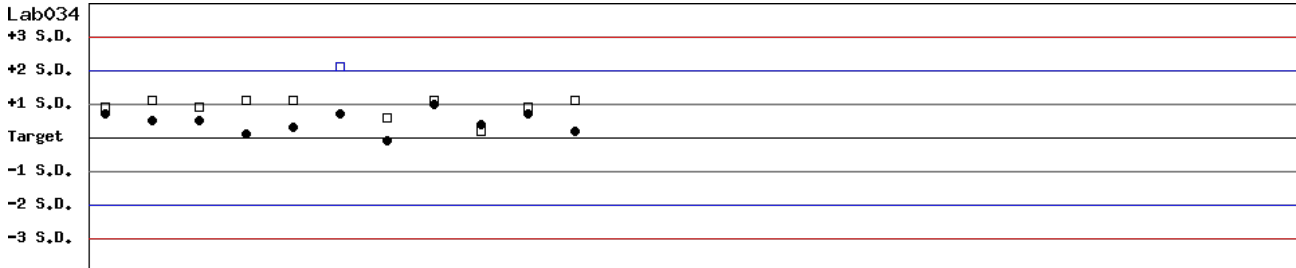
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## Control N 及 Control D SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2024-03-07 至 2024-06-30; 目標值 (Target) : 13.8; 參考標準差 (SD) : 1.38 (●)

Lot No.: BJ0922D; 檢驗期間 : 2024-03-07 至 2024-06-30; 目標值 (Target) : 4.7; 參考標準差 (SD) : 0.47 (□)

單位 : Lab034



Date 03-07 03-14 03-21 04-04 04-11 04-18 05-02 05-09 05-16 06-13 06-20

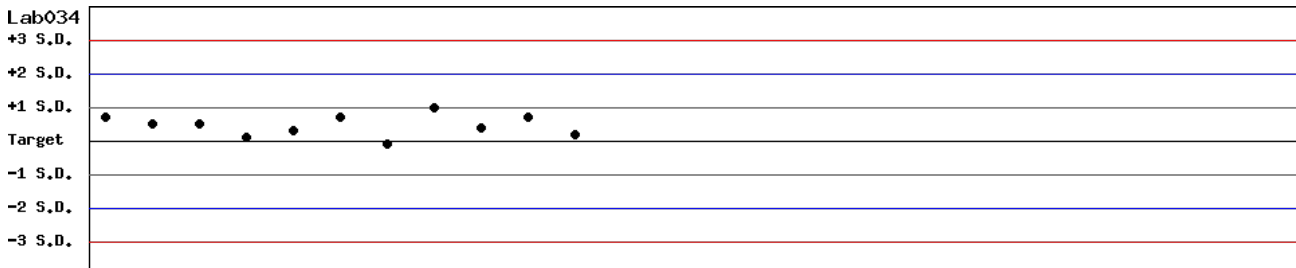
月統計 : 2024 06 Change ; 累計期間 (CUM) : 自 2024 03 07 至 2024 06 30 Change

[\[TOP\]](#)

## Control N SDI 分佈圖

Lot No.: BJ0922N; 檢驗期間 : 2024-03-07 至 2024-06-30; 目標值 (Target) : 13.8; 參考標準差 (SD) : 1.38

單位 : Lab034



Date 03-07 03-14 03-21 04-04 04-11 04-18 05-02 05-09 05-16 06-13 06-20

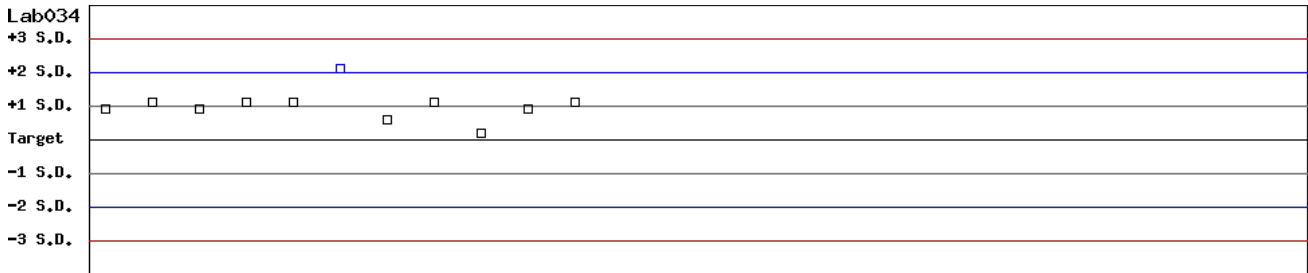
月統計 : 2024 06 Change ; 累計期間 (CUM) : 自 2024 03 07 至 2024 06 30 Change

[\[TOP\]](#)

# Control D SDI 分佈圖

Lot No.: BJ0922D; 檢驗期間: 2024-03-07 至 2024-06-30; 目標值 (Target): 4.7; 參考標準差 (SD): 0.47

單位: Lab034



Date: 03-07 03-14 03-21 04-04 04-11 04-18 05-02 05-09 05-16 06-13 06-20

月統計: 2024 06 Change ; 累計期間 (CUM): 自 2024 03 07 至 2024 06 30 Change

[TOP](#)

# 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 : 2024 06 Change

UnitID <sup>↑</sup>	Reagent Kit (Code) <sup>↑</sup>	Control N (Lot No.: BJ0922N)								Control D (Lot No.: BJ0922D)							
		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
<a href="#">Lab018</a>	5	16.2	15.3	8	0.1	0.7	6.9	20	>6	5.5	5.3	8	0.1	1.9	7.4	20	>6
<a href="#">Lab019</a>	5	14.7	15.2	4	0.2	1.3	6.0	20	>6	5.0	5.0	4	0.1	2.0	4.0	20	>6
<a href="#">Lab020</a>	5	14.4	14.4	4	0.6	4.2	8.3	20	4.8	4.6	4.9	4	0.1	2.0	10.6	20	>6
<a href="#">Lab034</a>	5	13.8	14.4	2	-	-	-	20	-	4.7	5.2	2	-	-	-	20	-
<a href="#">Lab040</a>	5	14.4	14.8	5	0.2	1.4	5.5	20	>6	4.6	4.5	5	0.1	2.2	6.6	20	>6
<a href="#">Lab043</a>	5	13.2	13.9	4	0.4	2.9	11.1	20	5.1	4.2	4.9	4	0.1	2.0	20.7	20	1.7
<a href="#">Lab049</a>	5	13.8	14.2	4	0.1	0.7	4.3	20	>6	4.7	4.9	4	0.1	2.0	8.3	20	>6
<a href="#">Lab050</a>	5	13.8	14.8	9	0.5	3.4	14.0	20	3.8	4.7	5.4	9	0.3	5.6	26.0	20	0.9
Total	-	-	14.7	40	0.5	3.4	-	-	-	-	5.1	40	0.3	5.9	-	-	-

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

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

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

[TOP](#)

## Cumulative

Cumulative : from 2021 01 01 to 2024 06 30 Change

UnitID <sup>↑</sup>	Reagent Kit (Code) <sup>↑</sup>	Control N (Lot No.: BJ0922N)								Control D (Lot No.: BJ0922D)							
		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
<a href="#">Lab018</a>	5	16.2	15.3	86	0.4	2.6	10.8	20	5.6	5.5	5.4	86	0.1	1.9	5.5	20	>6
<a href="#">Lab019</a>	5	14.7	14.5	118	0.6	4.1	9.6	20	4.5	5.0	4.8	118	0.3	6.3	16.5	20	2.5
<a href="#">Lab020</a>	5	14.4	14.4	89	0.5	3.5	6.9	20	5.7	4.6	4.7	89	0.2	4.3	10.7	20	4.1
<a href="#">Lab022</a>	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
<a href="#">Lab028</a>	5	15.2	15.1	34	1.1	7.3	15.2	20	2.6	4.9	4.9	34	0.3	6.1	12.2	20	3.3
<a href="#">Lab032</a>	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
<a href="#">Lab033</a>	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
<a href="#">Lab034</a>	5	13.8	14.4	11	0.4	2.8	9.9	20	5.6	4.7	5.2	11	0.2	3.8	18.3	20	2.5
<a href="#">Lab037</a>	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
<a href="#">Lab040</a>	5	14.4	14.8	114	0.2	1.4	5.5	20	>6	4.6	4.6	114	0.1	2.2	4.3	20	>6
<a href="#">Lab043</a>	5	13.2	13.9	145	1.1	7.9	21.1	20	1.9	4.2	4.6	145	0.4	8.7	26.9	20	1.2
<a href="#">Lab049</a>	5	13.8	14.4	215	0.6	4.2	12.7	20	3.7	4.7	4.7	215	0.3	6.4	12.8	20	3.1
<a href="#">Lab050</a>	5	13.8	14.5	29	0.6	4.1	13.3	20	3.6	4.7	5.3	29	0.3	5.7	24.1	20	1.3
Total	-	-	14.4	1161	0.7	4.9	-	-	-	-	4.7	1161	0.3	6.4	-	-	-

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

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

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

[TOP](#)

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 (2024/06)									CUM (2021/01/01~2024/06/30)						
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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
<a href="#">Lab018</a>	5	16.2	15.3	8	0.1	0.7	6.9	20	>6	16.2	15.3	86	0.4	2.6	10.8	20	5.6
<a href="#">Lab019</a>	5	14.7	15.2	4	0.2	1.3	6.0	20	>6	14.7	14.5	118	0.6	4.1	9.6	20	4.5
<a href="#">Lab020</a>	5	14.4	14.4	4	0.6	4.2	8.3	20	4.8	14.4	14.4	89	0.5	3.5	6.9	20	5.7
<a href="#">Lab022</a>	5	14.4	-	0	-	-	-	20	-	14.4	14.4	27	0.5	3.5	6.9	20	5.7
<a href="#">Lab028</a>	5	15.2	-	0	-	-	-	20	-	15.2	15.1	34	1.1	7.3	15.2	20	2.6
<a href="#">Lab032</a>	5	14.9	-	0	-	-	-	20	-	14.9	14.3	153	0.4	2.8	9.6	20	5.7
<a href="#">Lab033</a>	5	13.8	-	0	-	-	-	20	-	13.8	13.6	81	0.7	5.1	11.7	20	3.6
<a href="#">Lab034</a>	5	13.8	14.4	2	-	-	-	20	-	13.8	14.4	11	0.4	2.8	9.9	20	5.6
<a href="#">Lab037</a>	5	13.8	-	0	-	-	-	20	-	13.8	14.5	59	0.5	3.4	12.0	20	4.4
<a href="#">Lab040</a>	5	14.4	14.8	5	0.2	1.4	5.5	20	>6	14.4	14.8	114	0.2	1.4	5.5	20	>6
<a href="#">Lab043</a>	5	13.2	13.9	4	0.4	2.9	11.1	20	5.1	13.2	13.9	145	1.1	7.9	21.1	20	1.9
<a href="#">Lab049</a>	5	13.8	14.2	4	0.1	0.7	4.3	20	>6	13.8	14.4	215	0.6	4.2	12.7	20	3.7
<a href="#">Lab050</a>	5	13.8	14.8	9	0.5	3.4	14.0	20	3.8	13.8	14.5	29	0.6	4.1	13.3	20	3.6
Total	-	-	14.7	40	0.5	3.4	-	-	-	-	14.4	1161	0.7	4.9	-	-	-

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

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

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

Month : 2024 06 Change

Cumulative : from 2021 01 01 to 2024 06 30 Change

[TOP](#)

### Control D Month vs. Cumulative

		Control D (Lot No.: BJ0922D)															
		Month (2024/06)									CUM (2021/01/01~2024/06/30)						
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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
<a href="#">Lab018</a>	5	5.5	5.3	8	0.1	1.9	7.4	20	>6	5.5	5.4	86	0.1	1.9	5.5	20	>6
<a href="#">Lab019</a>	5	5.0	5.0	4	0.1	2.0	4.0	20	>6	5.0	4.8	118	0.3	6.3	16.5	20	2.5
<a href="#">Lab020</a>	5	4.6	4.9	4	0.1	2.0	10.6	20	>6	4.6	4.7	89	0.2	4.3	10.7	20	4.1
<a href="#">Lab022</a>	5	4.6	-	0	-	-	-	20	-	4.6	4.7	27	0.3	6.4	14.9	20	2.8
<a href="#">Lab028</a>	5	4.9	-	0	-	-	-	20	-	4.9	4.9	34	0.3	6.1	12.2	20	3.3
<a href="#">Lab032</a>	5	4.8	-	0	-	-	-	20	-	4.8	4.5	153	0.2	4.4	15.1	20	3.1
<a href="#">Lab033</a>	5	4.7	-	0	-	-	-	20	-	4.7	4.6	81	0.3	6.5	15.2	20	2.7
<a href="#">Lab034</a>	5	4.7	5.2	2	-	-	-	20	-	4.7	5.2	11	0.2	3.8	18.3	20	2.5
<a href="#">Lab037</a>	5	4.7	-	0	-	-	-	20	-	4.7	4.7	59	0.2	4.3	8.5	20	4.7
<a href="#">Lab040</a>	5	4.6	4.5	5	0.1	2.2	6.6	20	>6	4.6	4.6	114	0.1	2.2	4.3	20	>6
<a href="#">Lab043</a>	5	4.2	4.9	4	0.1	2.0	20.7	20	1.7	4.2	4.6	145	0.4	8.7	26.9	20	1.2
<a href="#">Lab049</a>	5	4.7	4.9	4	0.1	2.0	8.3	20	>6	4.7	4.7	215	0.3	6.4	12.8	20	3.1
<a href="#">Lab050</a>	5	4.7	5.4	9	0.3	5.6	26.0	20	0.9	4.7	5.3	29	0.3	5.7	24.1	20	1.3
Total	-	-	5.1	40	0.3	5.9	-	-	-	-	4.7	1161	0.3	6.4	-	-	-

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

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

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

Month : 2024 06 Change

Cumulative : from 2021 01 01 to 2024 06 30 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5