

# Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - August 2023 -

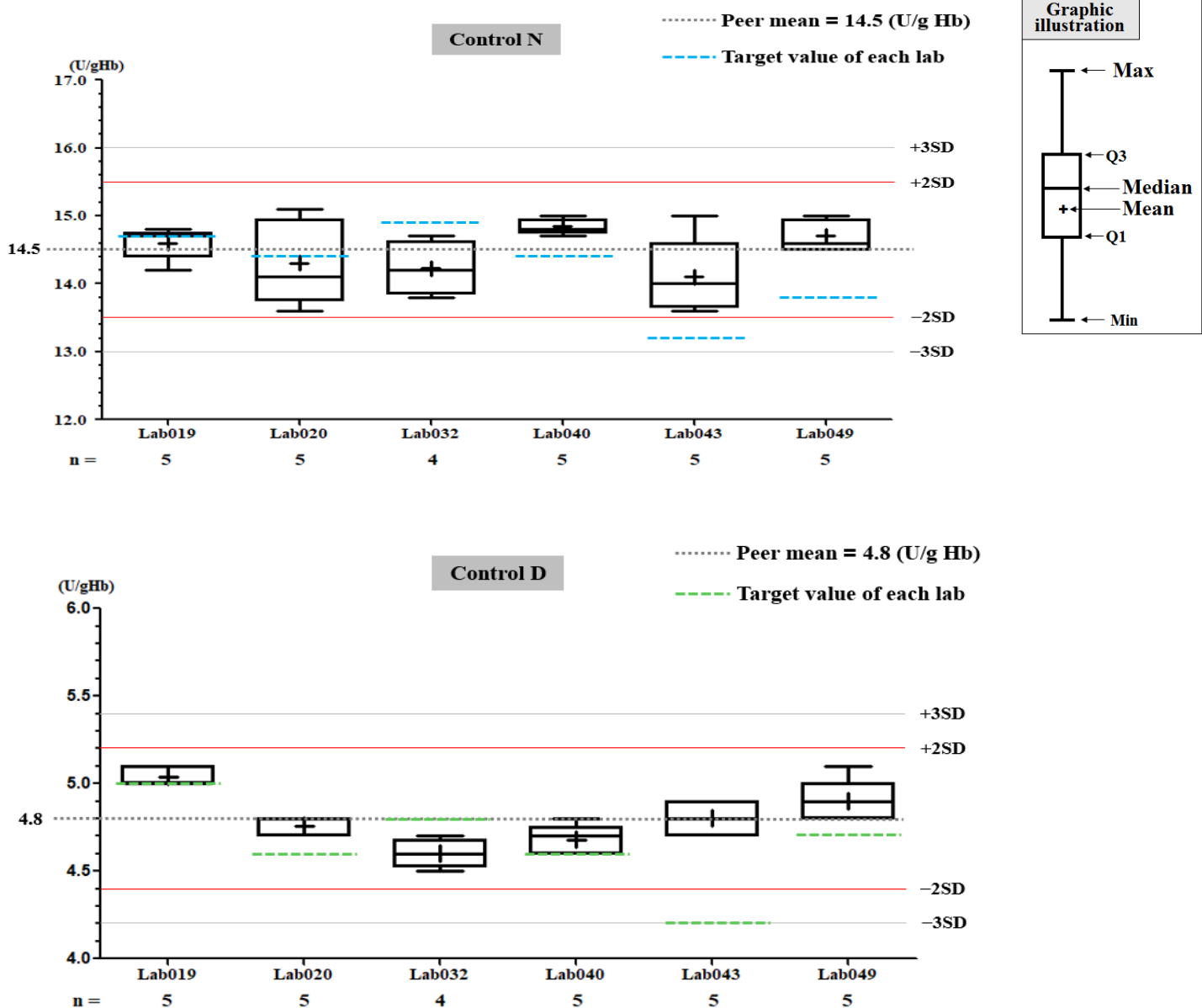
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:BJ0922N)	Control D (Lot No.: BJ0922D)
Labs	6	6
Received results number (n)	29	29
Median	14.6 (U/g Hb)	4.8 (U/g Hb)
Mean	14.5 (U/g Hb)	4.8 (U/g Hb)
SD	0.5	0.2
CV	3.4%	4.2%
Range of G6PD	13.6 ~ 15.1 (U/g Hb)	4.5 ~ 5.1 (U/g Hb)
Range of Hb	1.7 ~ 3.2 (g/dL)	1.6 ~ 2.7 (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](#)

## Lab049

QC Control Lot No.	Control N		Control D	
	BJ0922N		BJ0922D	
Duration of the Analyzing	Month (2023/08)	CUM (2023/04/01~2023/08/31)	Month (2023/08)	CUM (2023/04/01~2023/08/31)
Runs (N)	5	22	5	22
Mean (U/gHb)	14.7	14.3	4.9	4.8
SD	0.2	0.6	0.1	0.2
CV (%)	1.4	4.2	2.0	4.2
Target Value (U/gHb)	13.8	13.8	4.7	4.7
Total Error (%)	9.2	12.0	8.3	10.5
TEa (%)	20	20	20	20
$\sigma$	>6	3.9	>6	4.3

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

Month : 2023 08 Change ; Cumulative : from 2023 04 01 to 2023 08 31 Change

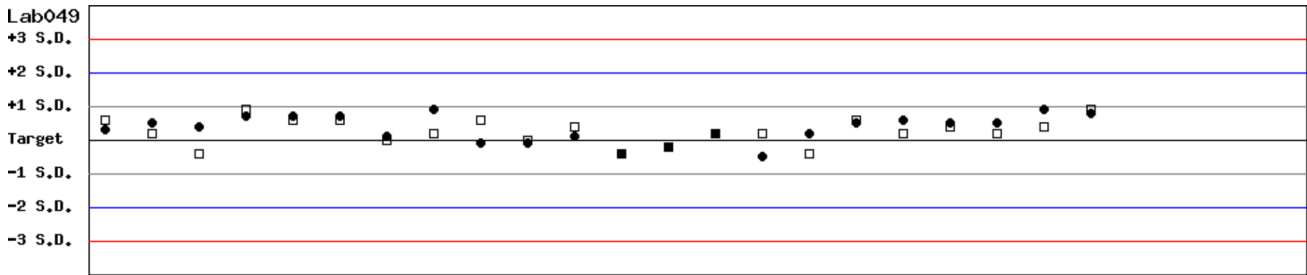
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## Control N and Control D SDI QC Chart

Lot No.: BJ0922N ; Duration : 2023-04-01 to 2023-08-31 ; Target : 13.8 ; SD : 1.38 (●)

Lot No.: BJ0922D ; Duration : 2023-04-01 to 2023-08-31 ; Target : 4.7 ; SD : 0.47 (□)

[Lab049](#)



Date 04-05 04-12 04-19 04-26 05-03 05-10 05-17 05-24 05-31 06-07 06-15 06-21 06-29 07-05 07-12 07-19 07-26 08-02 08-09 08-16 08-23 08-30

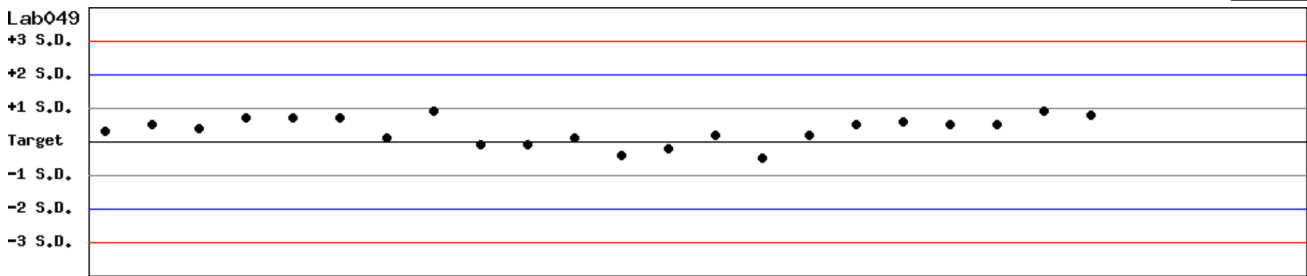
Month : 2023 08 Change ; Cumulative : from 2023 04 01 to 2023 08 31 Change

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## Control N SDI QC Chart

Lot No.: BJ0922N ; Duration : 2023-04-01 to 2023-08-31 ; Target : 13.8 ; SD : 1.38

[Lab049](#)



Date 04-05 04-12 04-19 04-26 05-03 05-10 05-17 05-24 05-31 06-07 06-15 06-21 06-29 07-05 07-12 07-19 07-26 08-02 08-09 08-16 08-23 08-30

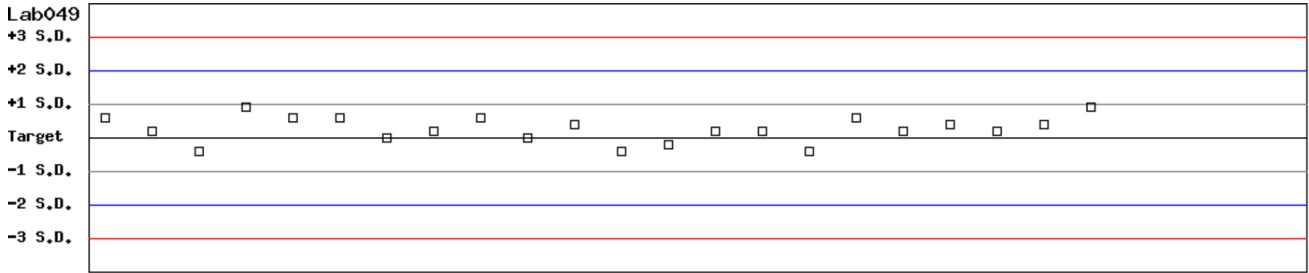
Month : 2023 08 Change ; Cumulative : from 2023 04 01 to 2023 08 31 Change

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# Control D SDI QC Chart

Lot No.: BJ0922D ; Duration : 2023-04-01 to 2023-08-31 ; Target : 4.7 ; SD : 0.47

Lab049



Date 04-05 04-12 04-19 04-26 05-03 05-10 05-17 05-24 05-31 06-07 06-15 06-21 06-29 07-05 07-12 07-19 07-26 08-02 08-09 08-16 08-23 08-30

Month :    ; Cumulative : from    to

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# Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon

## Monthly

Month : 2023

UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	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="#">Lab019</a>	5	14.7	14.6	5	0.2	1.4	3.4	20	>6	5.0	5.0	5	0.1	2.0	4.0	20	>6
<a href="#">Lab020</a>	5	14.4	14.3	5	0.6	4.2	9.1	20	4.6	4.6	4.8	5	0.1	2.1	8.5	20	>6
<a href="#">Lab032</a>	5	14.9	14.2	4	0.4	2.8	10.3	20	5.5	4.8	4.6	4	0.1	2.2	8.5	20	>6
<a href="#">Lab040</a>	5	14.4	14.8	5	0.1	0.7	4.1	20	>6	4.6	4.7	5	0.1	2.1	6.4	20	>6
<a href="#">Lab043</a>	5	13.2	14.1	5	0.6	4.3	15.3	20	3.1	4.2	4.8	5	0.1	2.1	18.5	20	2.7
<a href="#">Lab049</a>	5	13.8	14.7	5	0.2	1.4	9.2	20	>6	4.7	4.9	5	0.1	2.0	8.3	20	>6
Total	-	-	14.5	29	0.5	3.4	-	-	-	-	4.8	29	0.2	4.2	-	-	-

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 2021   to 2023

UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	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	16.4	8	0.4	2.4	6.1	20	>6	5.5	5.5	8	0.2	3.6	7.3	20	5.6
<a href="#">Lab019</a>	5	14.7	14.4	75	0.6	4.2	10.4	20	4.3	5.0	4.7	75	0.3	6.4	18.8	20	2.2
<a href="#">Lab020</a>	5	14.4	14.4	76	0.5	3.5	6.9	20	5.7	4.6	4.7	76	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	131	0.4	2.8	9.6	20	5.7	4.8	4.5	131	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="#">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	14.7	60	0.2	1.4	4.8	20	>6	4.6	4.6	60	0.1	2.2	4.3	20	>6
<a href="#">Lab043</a>	5	13.2	13.8	101	1.2	8.7	21.9	20	1.8	4.2	4.5	101	0.5	11.1	29.4	20	1.2
<a href="#">Lab049</a>	5	13.8	14.4	149	0.6	4.2	12.7	20	3.7	4.7	4.7	149	0.2	4.3	8.5	20	4.7
Total	-	-	14.3	801	0.8	5.6	-	-	-	-	4.7	801	0.3	6.4	-	-	-

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 : 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 (2023/08)								CUM (2021/01/01~2023/08/31)							
UnitID <span style="font-size: small;">↑</span>	Reagent Kit (Code) <span style="font-size: small;">↑</span>	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	-	0	-	-	-	20	-	16.2	16.4	8	0.4	2.4	6.1	20	>6
<a href="#">Lab019</a>	5	14.7	14.6	5	0.2	1.4	3.4	20	>6	14.7	14.4	75	0.6	4.2	10.4	20	4.3
<a href="#">Lab020</a>	5	14.4	14.3	5	0.6	4.2	9.1	20	4.6	14.4	14.4	76	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	14.2	4	0.4	2.8	10.3	20	5.5	14.9	14.3	131	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="#">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	0.1	0.7	4.1	20	>6	14.4	14.7	60	0.2	1.4	4.8	20	>6
<a href="#">Lab043</a>	5	13.2	14.1	5	0.6	4.3	15.3	20	3.1	13.2	13.8	101	1.2	8.7	21.9	20	1.8
<a href="#">Lab049</a>	5	13.8	14.7	5	0.2	1.4	9.2	20	>6	13.8	14.4	149	0.6	4.2	12.7	20	3.7
<b>Total</b>	-	-	14.5	29	0.5	3.4	-	-	-	-	14.3	801	0.8	5.6	-	-	-

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

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

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

Month : 2023 08 Change

Cumulative : from 2021 01 01 to 2023 08 31 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: BJ0922D)															
		Month (2023/08)								CUM (2021/01/01~2023/08/31)							
UnitID <span style="font-size: small;">↑</span>	Reagent Kit (Code) <span style="font-size: small;">↑</span>	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	-	0	-	-	-	20	-	5.5	5.5	8	0.2	3.6	7.3	20	5.6
<a href="#">Lab019</a>	5	5.0	5.0	5	0.1	2.0	4.0	20	>6	5.0	4.7	75	0.3	6.4	18.8	20	2.2
<a href="#">Lab020</a>	5	4.6	4.8	5	0.1	2.1	8.5	20	>6	4.6	4.7	76	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	4.6	4	0.1	2.2	8.5	20	>6	4.8	4.5	131	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="#">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	4.7	5	0.1	2.1	6.4	20	>6	4.6	4.6	60	0.1	2.2	4.3	20	>6
<a href="#">Lab043</a>	5	4.2	4.8	5	0.1	2.1	18.5	20	2.7	4.2	4.5	101	0.5	11.1	29.4	20	1.2
<a href="#">Lab049</a>	5	4.7	4.9	5	0.1	2.0	8.3	20	>6	4.7	4.7	149	0.2	4.3	8.5	20	4.7
<b>Total</b>	-	-	4.8	29	0.2	4.2	-	-	-	-	4.7	801	0.3	6.4	-	-	-

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

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

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

Month : 2023 08 Change

Cumulative : from 2021 01 01 to 2023 08 31 Change

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Reagent Kit	Reagent Code
Medicon	5