

# Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - February 2022 -

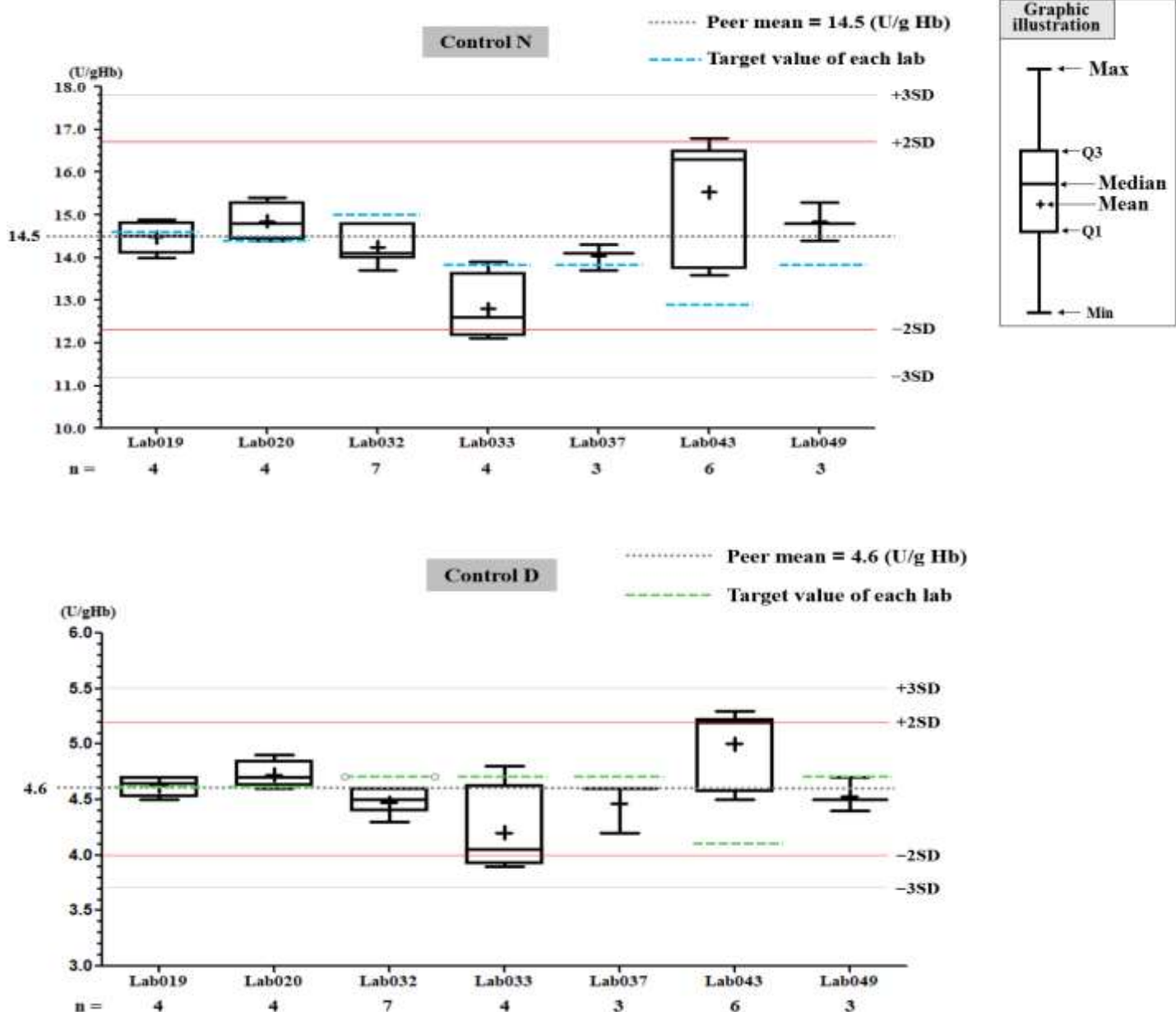
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:BJ0922N)	Control D (Lot No.: BJ0922D)
Labs	7	7
Received results number (n)	31	31
Median	14.4 (U/g Hb)	4.6 (U/g Hb)
Mean	14.5 (U/g Hb)	4.6 (U/g Hb)
SD	1.1	0.3
CV	7.6%	6.5%
Range of G6PD	12.1 ~ 16.8 (U/g Hb)	3.9 ~ 5.3 (U/g Hb)
Range of Hb	2.2 ~ 2.8 (g/dL)	1.9 ~ 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



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

Select LotNo :

## Lab032

QC Control Lot No.	Control N		Control D	
	BJ0922N		BJ0922D	
Duration of the Analyzing	Month (2022/02)	CUM (2021/11/23~2022/02/28)	Month (2022/02)	CUM (2021/11/23~2022/02/28)
Runs (N)	7	26	7	26
Mean (U/gHb)	14.2	14.5	4.5	4.5
SD	0.4	0.4	0.1	0.1
CV (%)	2.8	2.8	2.2	2.2
Target Value (U/gHb)	15.0	15.0	4.7	4.7
Total Error (%)	11.0	8.9	8.7	8.7
TEa (%)	20	20	20	20
$\sigma$	5.2	6.0	>6	>6

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

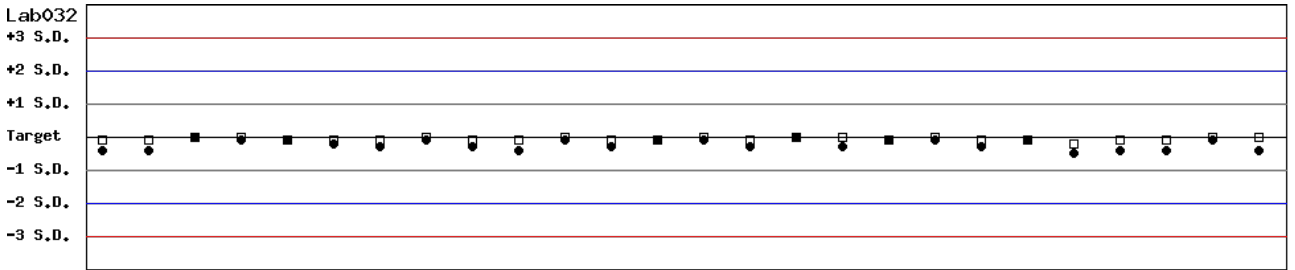
Month :    ; Cumulative : from    to

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## Control N and Control D SDI QC Chart

Lot No.: BJ0922N ; Duration : 2021-11-23 to 2022-02-28 ; Target : 15.0 ; SD : 2.40 (●)

Lot No.: BJ0922D ; Duration : 2021-11-23 to 2022-02-28 ; Target : 4.7 ; SD : 2.30 (□)



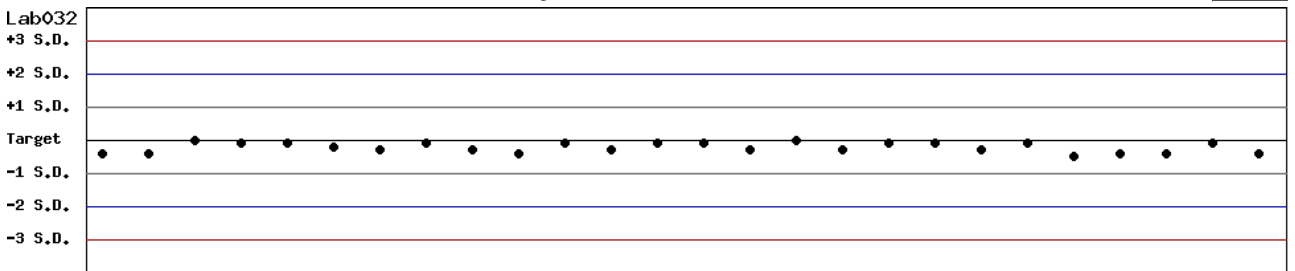
Date 11-23 11-25 11-30 12-02 12-07 12-09 12-14 12-16 12-21 12-23 12-28 12-30 01-04 01-06 01-11 01-13 01-18 01-20 01-23 02-08 02-10 02-15 02-17 02-22 02-24 02-28

Month :    ; Cumulative : from    to

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## Control N SDI QC Chart

Lot No.: BJ0922N ; Duration : 2021-11-23 to 2022-02-28 ; Target : 15.0 ; SD : 2.40



Date 11-23 11-25 11-30 12-02 12-07 12-09 12-14 12-16 12-21 12-23 12-28 12-30 01-04 01-06 01-11 01-13 01-18 01-20 01-23 02-08 02-10 02-15 02-17 02-22 02-24 02-28

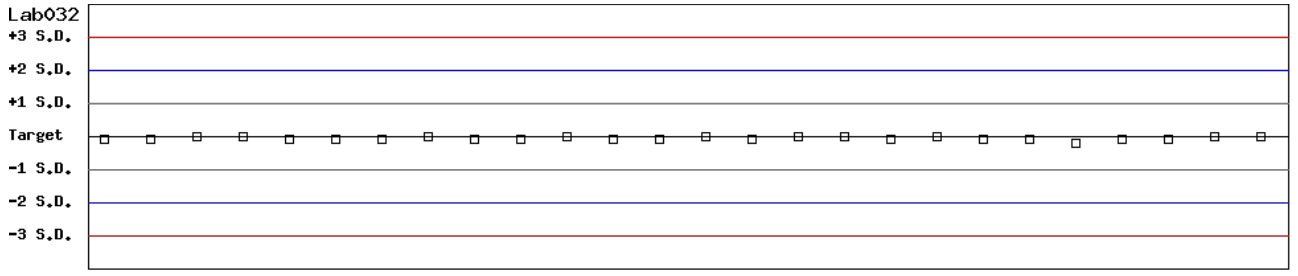
Month :    ; Cumulative : from    to

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# Control D SDI QC Chart

Lot No.: BJ0922D ; Duration : 2021-11-23 to 2022-02-28 ; Target : 4.7 ; SD : 2.30

Lab032



Date 11-23 11-25 11-30 12-02 12-07 12-09 12-14 12-16 12-21 12-23 12-28 12-30 01-04 01-06 01-11 01-13 01-18 01-20 01-23 02-08 02-10 02-15 02-17 02-22 02-24 02-28

Month : 2022 ▾ 02 ▾ Change ; Cumulative : from 2021 ▾ 11 ▾ 23 ▾ to 2022 ▾ 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 : 2022 02 Change

UnitID <span>↑</span>	Reagent Kit (Code) <span>↑</span>	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	14.6	14.5	4	0.4	2.8	6.2	20	>6	4.6	4.6	4	0.1	2.2	4.3	20	>6
<a href="#">Lab020</a>	5	14.4	14.9	4	0.4	2.7	8.8	20	>6	4.6	4.7	4	0.1	2.1	6.4	20	>6
<a href="#">Lab032</a>	5	15.0	14.2	7	0.4	2.8	11.0	20	5.2	4.7	4.5	7	0.1	2.2	8.7	20	>6
<a href="#">Lab033</a>	5	13.8	12.8	4	0.8	6.3	19.7	20	2.0	4.7	4.2	4	0.4	9.5	29.7	20	1.0
<a href="#">Lab037</a>	5	13.8	14.0	3	0.3	2.1	5.7	20	>6	4.7	4.5	3	0.2	4.4	13.1	20	3.6
<a href="#">Lab043</a>	5	12.9	15.5	6	1.4	9.0	38.2	20	0.0	4.1	5.0	6	0.4	8.0	38.0	20	-0.2
<a href="#">Lab049</a>	5	13.8	14.8	3	0.5	3.4	14.0	20	3.8	4.7	4.5	3	0.2	4.4	13.1	20	3.6
Total	-	-	14.5	31	1.1	7.6	-	-	-	-	4.6	31	0.3	6.5	-	-	-

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 2022 02 28 Change

UnitID <span>↑</span>	Reagent Kit (Code) <span>↑</span>	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	14.6	15.1	8	0.7	4.6	12.7	20	3.6	4.6	4.6	8	0.1	2.2	4.3	20	>6
<a href="#">Lab020</a>	5	14.4	14.6	17	0.6	4.1	9.6	20	4.5	4.6	4.7	17	0.2	4.3	10.7	20	4.1
<a href="#">Lab028</a>	5	13.8	14.8	21	1.3	8.8	24.8	20	1.4	4.7	4.8	21	0.3	6.3	14.6	20	2.8
<a href="#">Lab032</a>	5	15.0	14.3	58	0.4	2.8	10.3	20	5.5	4.7	4.5	58	0.1	2.2	8.7	20	>6
<a href="#">Lab033</a>	5	13.8	12.7	8	0.6	4.7	17.4	20	2.6	4.7	4.0	8	0.3	7.5	29.9	20	0.7
<a href="#">Lab037</a>	5	13.8	14.7	14	0.6	4.1	14.7	20	3.3	4.7	4.7	14	0.3	6.4	12.8	20	3.1
<a href="#">Lab043</a>	5	12.9	13.0	35	1.7	13.1	26.9	20	1.5	4.1	4.1	35	0.5	12.2	24.4	20	1.6
<a href="#">Lab049</a>	5	13.8	15.0	38	0.6	4.0	16.7	20	2.8	4.7	4.7	38	0.2	4.3	8.5	20	4.7
Total	-	-	14.3	199	1.2	8.4	-	-	-	-	4.5	199	0.4	8.9	-	-	-

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 (2022/02)								CUM (2021/01/01~2022/02/28)							
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="#">Lab019</a>	5	14.6	14.5	4	0.4	2.8	6.2	20	>6	14.6	15.1	8	0.7	4.6	12.7	20	3.6
<a href="#">Lab020</a>	5	14.4	14.9	4	0.4	2.7	8.8	20	>6	14.4	14.6	17	0.6	4.1	9.6	20	4.5
<a href="#">Lab028</a>	5	13.8	-	0	-	-	-	20	-	13.8	14.8	21	1.3	8.8	24.8	20	1.4
<a href="#">Lab032</a>	5	15.0	14.2	7	0.4	2.8	11.0	20	5.2	15.0	14.3	58	0.4	2.8	10.3	20	5.5
<a href="#">Lab033</a>	5	13.8	12.8	4	0.8	6.3	19.7	20	2.0	13.8	12.7	8	0.6	4.7	17.4	20	2.6
<a href="#">Lab037</a>	5	13.8	14.0	3	0.3	2.1	5.7	20	>6	13.8	14.7	14	0.6	4.1	14.7	20	3.3
<a href="#">Lab043</a>	5	12.9	15.5	6	1.4	9.0	38.2	20	0.0	12.9	13.0	35	1.7	13.1	26.9	20	1.5
<a href="#">Lab049</a>	5	13.8	14.8	3	0.5	3.4	14.0	20	3.8	13.8	15.0	38	0.6	4.0	16.7	20	2.8
Total	-	-	14.5	31	1.1	7.6	-	-	-	-	14.3	199	1.2	8.4	-	-	-

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

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

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

Month : 2022 02 Change Cumulative : from 2021 01 01 to 2022 02 28 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: BJ0922D)															
		Month (2022/02)								CUM (2021/01/01~2022/02/28)							
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="#">Lab019</a>	5	4.6	4.6	4	0.1	2.2	4.3	20	>6	4.6	4.6	8	0.1	2.2	4.3	20	>6
<a href="#">Lab020</a>	5	4.6	4.7	4	0.1	2.1	6.4	20	>6	4.6	4.7	17	0.2	4.3	10.7	20	4.1
<a href="#">Lab028</a>	5	4.7	-	0	-	-	-	20	-	4.7	4.8	21	0.3	6.3	14.6	20	2.8
<a href="#">Lab032</a>	5	4.7	4.5	7	0.1	2.2	8.7	20	>6	4.7	4.5	58	0.1	2.2	8.7	20	>6
<a href="#">Lab033</a>	5	4.7	4.2	4	0.4	9.5	29.7	20	1.0	4.7	4.0	8	0.3	7.5	29.9	20	0.7
<a href="#">Lab037</a>	5	4.7	4.5	3	0.2	4.4	13.1	20	3.6	4.7	4.7	14	0.3	6.4	12.8	20	3.1
<a href="#">Lab043</a>	5	4.1	5.0	6	0.4	8.0	38.0	20	-0.2	4.1	4.1	35	0.5	12.2	24.4	20	1.6
<a href="#">Lab049</a>	5	4.7	4.5	3	0.2	4.4	13.1	20	3.6	4.7	4.7	38	0.2	4.3	8.5	20	4.7
Total	-	-	4.6	31	0.3	6.5	-	-	-	-	4.5	199	0.4	8.9	-	-	-

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

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

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

Month : 2022 02 Change Cumulative : from 2021 01 01 to 2022 02 28 Change

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Reagent Kit	Reagent Code
Medicon	5