

# Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - February 2021 -

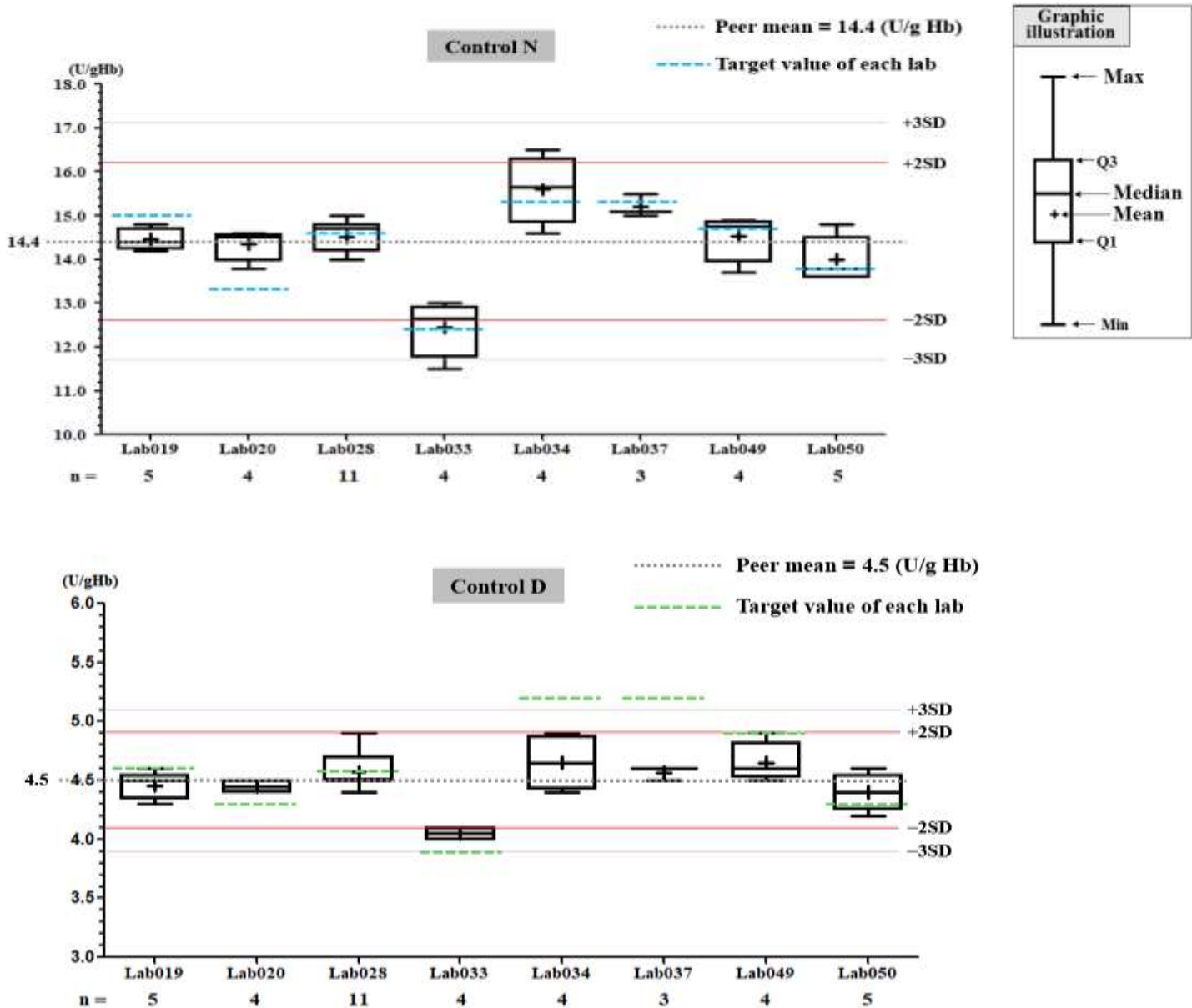
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:AH1220N)	Control D (Lot No.:AH1220D)
Labs	8	8
Received results number (n)	40	40
Median	14.6 (U/gHb)	4.5 (U/gHb)
Mean	14.4 (U/gHb)	4.5 (U/gHb)
SD	0.9	0.2
CV	6.3%	4.4%
Range of G6PD	11.5 ~ 16.5 (U/gHb)	4.0 ~ 4.9 (U/gHb)
Range of Hb	1.9 ~ 2.3 (g/dL)	2.0 ~ 2.5 (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 :

## Lab033

QC Control Lot No.	Control N		Control D	
	AH1220N		AH1220D	
Duration of the Analyzing	Month (2021/02)	CUM (2020/09/03~2021/02/27)	Month (2021/02)	CUM (2020/09/03~2021/02/27)
Runs (N)	4	26	4	26
Mean (U/gHb)	12.5	12.5	4.1	4.0
SD	0.7	0.4	0.1	0.2
CV (%)	5.6	3.2	2.4	5.0
Target Value (U/gHb)	12.4	12.4	3.9	3.9
Total Error (%)	12.0	7.2	10.0	12.6
TEa (%)	20	20	20	20
$\sigma$	3.4	6.0	>6	3.5

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

Month :    ; Cumulative : from    to

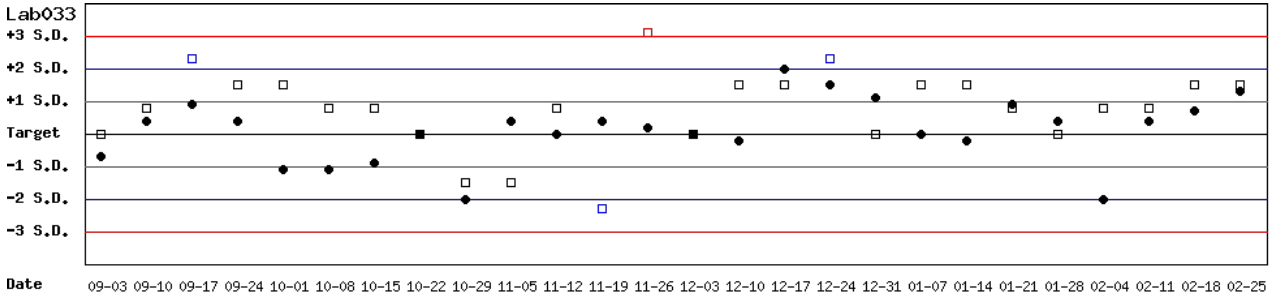
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## Control N and Control D SDI QC Chart

Lot No.: AH1220N ; Duration : 2020-09-03 to 2021-02-27 ; Target : 12.4 ; SD : 0.46 (●)

Lot No.: AH1220D ; Duration : 2020-09-03 to 2021-02-27 ; Target : 3.9 ; SD : 0.13 (□)

Lab033



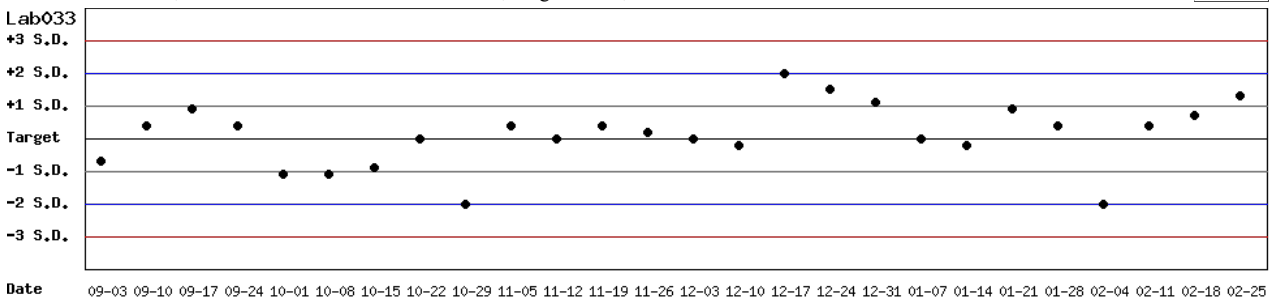
Month :    ; Cumulative : from    to

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## Control N SDI QC Chart

Lot No.: AH1220N ; Duration : 2020-09-03 to 2021-02-27 ; Target : 12.4 ; SD : 0.46

Lab033



Month :    ; Cumulative : from    to

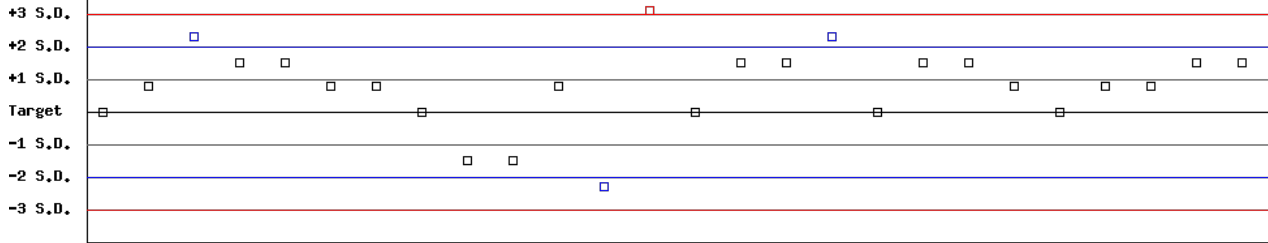
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## Control D SDI QC Chart

Lot No.: AH1220D ; Duration : 2020-09-03 to 2021-02-27 ; Target : 3.9 ; SD : 0.13

Lab033

Lab033



Date 09-03 09-10 09-17 09-24 10-01 10-08 10-15 10-22 10-29 11-05 11-12 11-19 11-26 12-03 12-10 12-17 12-24 12-31 01-07 01-14 01-21 01-28 02-04 02-11 02-18 02-25

Month :    ; Cumulative : from    to

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## Peer Group Statistics (Table 1)

Select LotNo : AH1220N (2019-01-28 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 1

### Monthly

Month : 2021 02 Change

UnitID <span style="font-size: small;">↑</span>	Reagent Kit (Code) <span style="font-size: small;">↑</span>	Control N (Lot No.: AH1220N)									Control D (Lot No.: AH1220D)						
		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	15.0	14.5	5	0.2	1.4	6.1	20	>6	4.6	4.5	5	0.1	2.2	6.6	20	>6
<a href="#">Lab020</a>	5	13.3	14.4	4	0.4	2.8	13.8	20	4.2	4.3	4.5	4	0.1	2.2	9.1	20	>6
<a href="#">Lab028</a>	5	14.6	14.5	11	0.4	2.8	6.2	20	>6	4.6	4.6	11	0.2	4.3	8.7	20	4.7
<a href="#">Lab033</a>	5	12.4	12.5	4	0.7	5.6	12.0	20	3.4	3.9	4.1	4	0.1	2.4	10.0	20	>6
<a href="#">Lab034</a>	5	15.3	15.6	4	0.8	5.1	12.2	20	3.5	5.2	4.7	4	0.2	4.3	18.1	20	2.4
<a href="#">Lab037</a>	5	15.3	15.2	3	0.3	2.0	4.6	20	>6	5.2	4.6	3	0.1	2.2	15.9	20	3.8
<a href="#">Lab049</a>	5	14.7	14.5	4	0.6	4.1	9.6	20	4.5	4.9	4.7	4	0.2	4.3	12.6	20	3.7
<a href="#">Lab050</a>	5	13.8	14.0	5	0.5	3.6	8.6	20	5.2	4.3	4.4	5	0.2	4.5	11.4	20	3.9
Total	-	-	14.4	40	0.9	6.3	-	-	-	-	4.5	40	0.2	4.4	-	-	-

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

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

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

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### Cumulative

Cumulative : from 2019 02 01 to 2021 02 28 Change

UnitID <span style="font-size: small;">↑</span>	Reagent Kit (Code) <span style="font-size: small;">↑</span>	Control N (Lot No.: AH1220N)									Control D (Lot No.: AH1220D)						
		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	15.0	14.7	35	0.3	2.0	6.1	20	>6	4.6	4.5	35	0.1	2.2	6.6	20	>6
<a href="#">Lab020</a>	5	13.3	14.4	46	1.0	6.9	22.2	20	1.7	4.3	4.5	46	0.3	6.7	18.0	20	2.3
<a href="#">Lab022</a>	5	13.8	12.4	56	0.7	5.6	21.4	20	1.8	4.4	4.0	56	0.2	5.0	19.1	20	2.2
<a href="#">Lab028</a>	5	14.6	14.6	45	0.4	2.7	5.5	20	>6	4.6	4.6	45	0.2	4.3	8.7	20	4.7
<a href="#">Lab032</a>	5	12.1	13.1	112	1.5	11.5	31.2	20	1.0	3.5	4.1	112	0.6	14.6	46.4	20	0.2
<a href="#">Lab033</a>	5	12.4	12.5	95	0.4	3.2	7.2	20	6.0	3.9	3.9	95	0.2	5.1	10.3	20	3.9
<a href="#">Lab034</a>	5	15.3	15.2	33	0.7	4.6	9.9	20	4.2	5.2	4.6	33	0.2	4.3	20.2	20	2.0
<a href="#">Lab037</a>	5	15.3	15.2	47	0.4	2.6	5.9	20	>6	5.2	4.7	47	0.1	2.1	13.9	20	4.9
<a href="#">Lab040</a>	5	15.3	15.1	10	0.5	3.3	7.9	20	5.7	5.2	5.6	10	0.4	7.1	22.0	20	1.7
<a href="#">Lab047</a>	5	12.7	12.6	13	0.2	1.6	4.0	20	>6	4.0	4.0	13	0.1	2.5	5.0	20	>6
<a href="#">Lab049</a>	5	14.7	14.3	29	0.6	4.2	11.1	20	4.1	4.9	4.7	29	0.4	8.5	21.1	20	1.9
<a href="#">Lab050</a>	5	13.8	14.3	11	0.7	4.9	13.4	20	3.3	4.3	4.4	11	0.4	9.1	20.5	20	1.9
Total	-	-	13.7	532	1.4	10.2	-	-	-	-	4.3	532	0.5	11.6	-	-	-

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 : AH1220N (2019-01-28 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

[Print Table 2](#)

### Control N Month vs. Cumulative

		Control N (Lot No.: AH1220N)															
		Month (2021/02)								CUM (2019/02/01~2021/02/28)							
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="#">Lab019</a>	5	15.0	14.5	5	0.2	1.4	6.1	20	>6	15.0	14.7	35	0.3	2.0	6.1	20	>6
<a href="#">Lab020</a>	5	13.3	14.4	4	0.4	2.8	13.8	20	4.2	13.3	14.4	46	1.0	6.9	22.2	20	1.7
<a href="#">Lab022</a>	5	13.8	-	0	-	-	-	20	-	13.8	12.4	56	0.7	5.6	21.4	20	1.8
<a href="#">Lab028</a>	5	14.6	14.5	11	0.4	2.8	6.2	20	>6	14.6	14.6	45	0.4	2.7	5.5	20	>6
<a href="#">Lab032</a>	5	12.1	-	0	-	-	-	20	-	12.1	13.1	112	1.5	11.5	31.2	20	1.0
<a href="#">Lab033</a>	5	12.4	12.5	4	0.7	5.6	12.0	20	3.4	12.4	12.5	95	0.4	3.2	7.2	20	6.0
<a href="#">Lab034</a>	5	15.3	15.6	4	0.8	5.1	12.2	20	3.5	15.3	15.2	33	0.7	4.6	9.9	20	4.2
<a href="#">Lab037</a>	5	15.3	15.2	3	0.3	2.0	4.6	20	>6	15.3	15.2	47	0.4	2.6	5.9	20	>6
<a href="#">Lab040</a>	5	15.3	-	0	-	-	-	20	-	15.3	15.1	10	0.5	3.3	7.9	20	5.7
<a href="#">Lab047</a>	5	12.7	-	0	-	-	-	20	-	12.7	12.6	13	0.2	1.6	4.0	20	>6
<a href="#">Lab049</a>	5	14.7	14.5	4	0.6	4.1	9.6	20	4.5	14.7	14.3	29	0.6	4.2	11.1	20	4.1
<a href="#">Lab050</a>	5	13.8	14.0	5	0.5	3.6	8.6	20	5.2	13.8	14.3	11	0.7	4.9	13.4	20	3.3
Total	-	-	14.4	40	0.9	6.3	-	-	-	-	13.7	532	1.4	10.2	-	-	-

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

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

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

Month : 2021 02 Change

Cumulative : from 2019 02 01 to 2021 02 28 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AH1220D)															
		Month (2021/02)								CUM (2019/02/01~2021/02/28)							
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="#">Lab019</a>	5	4.6	4.5	5	0.1	2.2	6.6	20	>6	4.6	4.5	35	0.1	2.2	6.6	20	>6
<a href="#">Lab020</a>	5	4.3	4.5	4	0.1	2.2	9.1	20	>6	4.3	4.5	46	0.3	6.7	18.0	20	2.3
<a href="#">Lab022</a>	5	4.4	-	0	-	-	-	20	-	4.4	4.0	56	0.2	5.0	19.1	20	2.2
<a href="#">Lab028</a>	5	4.6	4.6	11	0.2	4.3	8.7	20	4.7	4.6	4.6	45	0.2	4.3	8.7	20	4.7
<a href="#">Lab032</a>	5	3.5	-	0	-	-	-	20	-	3.5	4.1	112	0.6	14.6	46.4	20	0.2
<a href="#">Lab033</a>	5	3.9	4.1	4	0.1	2.4	10.0	20	>6	3.9	3.9	95	0.2	5.1	10.3	20	3.9
<a href="#">Lab034</a>	5	5.2	4.7	4	0.2	4.3	18.1	20	2.4	5.2	4.6	33	0.2	4.3	20.2	20	2.0
<a href="#">Lab037</a>	5	5.2	4.6	3	0.1	2.2	15.9	20	3.8	5.2	4.7	47	0.1	2.1	13.9	20	4.9
<a href="#">Lab040</a>	5	5.2	-	0	-	-	-	20	-	5.2	5.6	10	0.4	7.1	22.0	20	1.7
<a href="#">Lab047</a>	5	4.0	-	0	-	-	-	20	-	4.0	4.0	13	0.1	2.5	5.0	20	>6
<a href="#">Lab049</a>	5	4.9	4.7	4	0.2	4.3	12.6	20	3.7	4.9	4.7	29	0.4	8.5	21.1	20	1.9
<a href="#">Lab050</a>	5	4.3	4.4	5	0.2	4.5	11.4	20	3.9	4.3	4.4	11	0.4	9.1	20.5	20	1.9
Total	-	-	4.5	40	0.2	4.4	-	-	-	-	4.3	532	0.5	11.6	-	-	-

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

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

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

Month : 2021 02 Change

Cumulative : from 2019 02 01 to 2021 02 28 Change

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Reagent Kit	Reagent Code
Medicon	5