

# Summary Report of IQC program for G6PD Quantitative Test - Medicon Group - November 2018 -

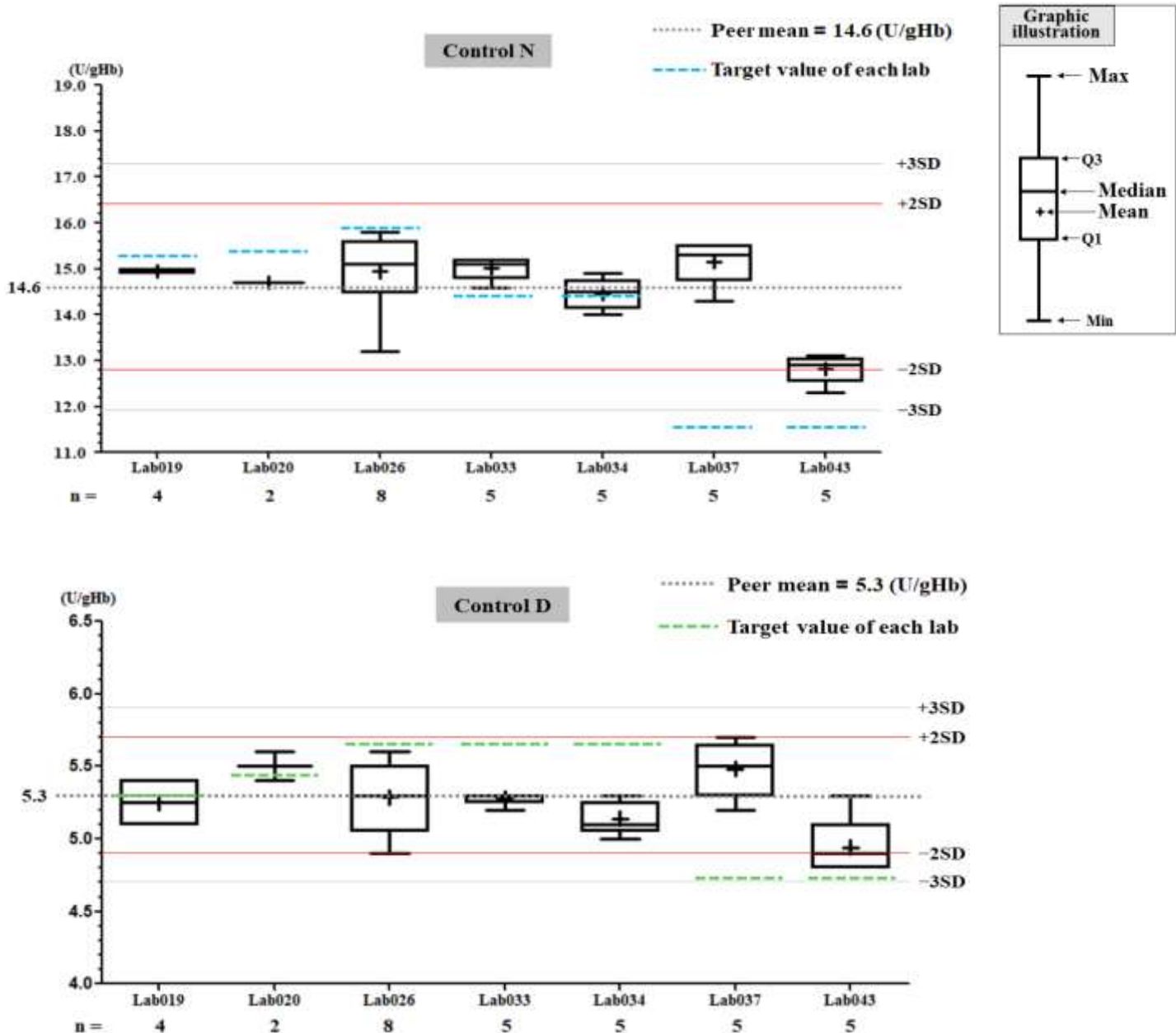
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:AE0909N)	Control D (Lot No.:AE0909D)
Labs	7	7
Received results number (n)	34	34
Median	14.9 (U/gHb)	5.3 (U/gHb)
Mean	14.5 (U/gHb)	5.3 (U/gHb)
SD	0.9	0.2
CV	6.2%	3.8%
Range of G6PD	12.3 ~ 15.8 (U/gHb)	4.8 ~ 5.7 (U/gHb)
Range of Hb	1.7 ~ 2.2 (g/dL)	2.0 ~ 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 : AE0909N (2016-01-01 ~ 2100-12-31) [Change](#)

[Print Table](#)

## Lab037

	Control N		Control D	
QC Control Lot No.	AE0909N		AE0909D	
Duration of the Analyzing	Month (2018/11)	CUM (2016/02/01~2018/11/30)	Month (2018/11)	CUM (2016/02/01~2018/11/30)
Runs (N)	5	7	5	7
Mean (U/gHb)	15.2	15.3	5.5	5.5
SD	0.5	0.5	0.2	0.2
CV (%)	3.3	3.3	3.6	3.6
Target Value (U/gHb)	11.5	11.5	4.5	4.5
Total Error (%)	38.8	39.6	29.5	29.5
TEa (%)	20	20	20	20
$\sigma$	-3.7	-4.0	-0.6	-0.6

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

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

$\sigma$  (Sigma) = [TEa% - Bias (%) ] / CV (%)

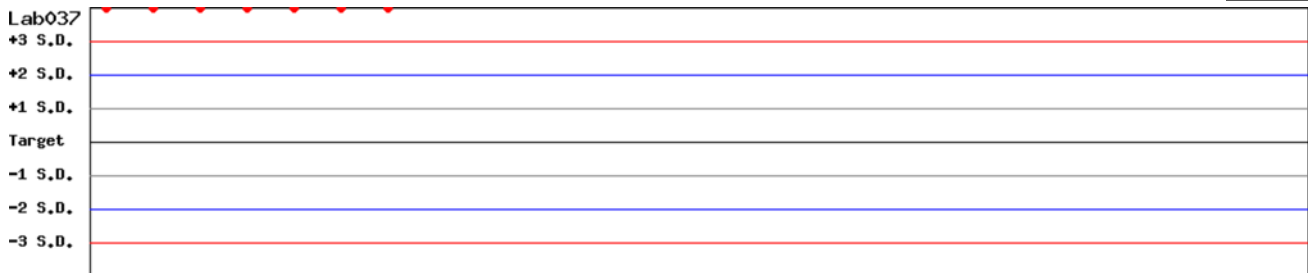
Month : 2018 11 [Change](#) ; Cumulative : from 2016 02 01 to 2018 11 30 [Change](#)

[TOP](#)

## Control N SDI QC Chart

Lot No.: AE0909N ; Duration : 2016-02-01 to 2018-11-30 ; Target : 11.5 ; SD : 0.6

Lab037



Date 10-19 10-26 11-02 11-10 11-16 11-23 11-30

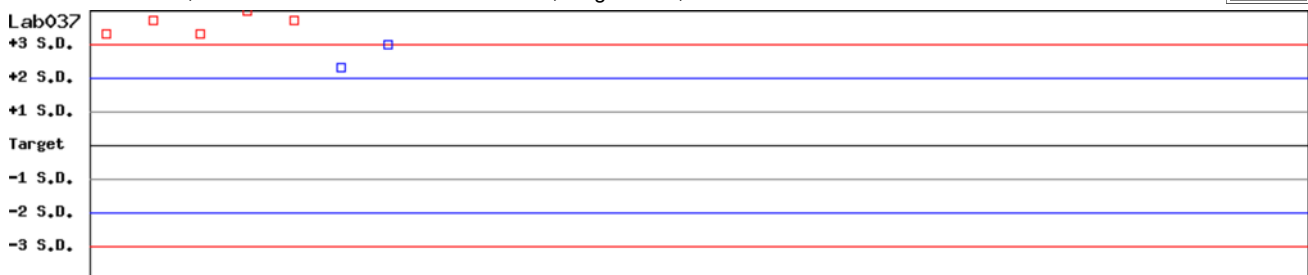
Month : 2018 11 [Change](#) ; Cumulative : from 2016 02 01 to 2018 11 30 [Change](#)

[TOP](#)

## Control D SDI QC Chart

Lot No.: AE0909D ; Duration : 2016-02-01 to 2018-11-30 ; Target : 4.5 ; SD : 0.3

Lab037



Date 10-19 10-26 11-02 11-10 11-16 11-23 11-30

Month : 2018 11 [Change](#) ; Cumulative : from 2016 02 01 to 2018 11 30 [Change](#)

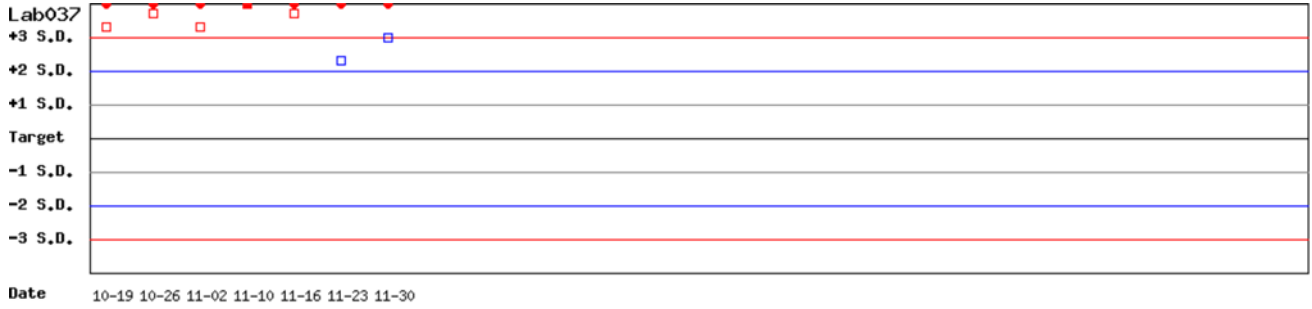
[TOP](#)

## Control N and Control D SDI QC Chart

Lot No.: AE0909N ; Duration : 2016-02-01 to 2018-11-30 ; Target : 11.5 ; SD : 0.6 ( ● )

Lot No.: AE0909D ; Duration : 2016-02-01 to 2018-11-30 ; Target : 4.5 ; SD : 0.3 ( □ )

Lab037



Month : 2018 11  ; Cumulative : from 2016 02 01 to 2018 11 30

[TOP](#)

# Peer Group Statistics (Table 1)

Select LotNo : AE0909N (2016-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 1

## Monthly

Month : 2018 11 Change

		Control N (Lot No.: AE0909N)								Control D (Lot No.: AE0909D)							
UnitID <sup>↑</sup>	Reagent Kit (Code) <sup>↑</sup>	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	15.3	15.0	4	0.1	0.7	3.3	20	>6	5.3	5.3	4	0.2	3.8	7.5	20	5.3
<a href="#">Lab020</a>	5	15.4	14.7	2	-	-	-	20	-	5.5	5.5	2	-	-	-	20	-
<a href="#">Lab026</a>	5	15.9	14.9	8	0.8	5.4	17.0	20	2.5	5.8	5.3	8	0.3	5.7	19.9	20	2.0
<a href="#">Lab033</a>	5	14.4	15.0	5	0.3	2.0	8.2	20	>6	5.8	5.3	5	0.0	0.0	8.6	20	>6
<a href="#">Lab034</a>	5	14.4	14.5	5	0.3	2.1	4.8	20	>6	5.8	5.1	5	0.1	2.0	16.0	20	4.0
<a href="#">Lab037</a>	5	11.5	15.2	5	0.5	3.3	38.8	20	-3.7	4.5	5.5	5	0.2	3.6	29.5	20	-0.6
<a href="#">Lab043</a>	5	11.5	12.8	5	0.3	2.3	16.0	20	3.8	4.5	4.9	5	0.2	4.1	17.1	20	2.7
Total	-	-	14.6	34	0.9	6.2	-	-	-	-	5.3	34	0.2	3.8	-	-	-

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

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

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

[\[TOP\]](#)

## Cumulative

Cumulative : from 2016 02 01 to 2018 11 30 Change

		Control N (Lot No.: AE0909N)								Control D (Lot No.: AE0909D)							
UnitID <sup>↑</sup>	Reagent Kit (Code) <sup>↑</sup>	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	15.7	16.1	60	0.7	4.3	11.2	20	4.1	5.6	5.7	60	0.3	5.3	12.3	20	3.4
<a href="#">Lab019</a>	5	15.3	15.1	43	0.4	2.6	6.6	20	>6	5.3	5.3	43	0.2	3.8	7.5	20	5.3
<a href="#">Lab020</a>	5	15.4	15.2	6	0.5	3.3	7.9	20	5.7	5.5	5.5	6	0.1	1.8	3.6	20	>6
<a href="#">Lab026</a>	5	15.9	15.3	125	0.5	3.3	10.3	20	4.9	5.8	5.2	125	0.4	7.7	25.7	20	1.3
<a href="#">Lab027</a>	5	11.5	16.2	53	1.4	8.6	58.2	20	-2.4	4.5	5.6	53	0.4	7.1	38.7	20	-0.6
<a href="#">Lab032</a>	5	15.9	15.8	22	1.0	6.3	13.3	20	3.1	5.8	5.7	22	0.4	7.0	15.8	20	2.6
<a href="#">Lab033</a>	5	14.4	14.8	32	0.6	4.1	10.9	20	4.2	5.8	5.3	32	0.2	3.8	16.2	20	3.0
<a href="#">Lab034</a>	5	14.4	14.2	37	0.5	3.5	8.4	20	5.3	5.8	5.1	37	0.2	3.9	19.9	20	2.0
<a href="#">Lab037</a>	5	11.5	15.3	7	0.5	3.3	39.6	20	-4.0	4.5	5.5	7	0.2	3.6	29.5	20	-0.6
<a href="#">Lab040</a>	5	12.5	13.2	38	0.6	4.5	14.7	20	3.2	4.5	4.7	38	0.3	6.4	17.2	20	2.4
<a href="#">Lab043</a>	5	11.5	13.3	42	1.1	8.3	32.2	20	0.5	4.5	5.1	42	0.3	5.9	25.1	20	1.1
Total	-	-	15.0	465	1.2	8.0	-	-	-	-	5.3	465	0.4	7.5	-	-	-

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

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

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

[\[TOP\]](#)

Reagent Kit	Reagent Code
Medicon	5

## Peer Group Statistics (Table 2)

Select LotNo :

Select Reagent Kit :

### Control N Month vs. Cumulative

		Control N (Lot No.: AE0909N)															
		Month (2018/11)								CUM (2016/02/01~2018/11/30)							
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
<a href="#">Lab018</a>	5	15.7	-	0	-	-	-	20	-	15.7	16.1	60	0.7	4.3	11.2	20	4.1
<a href="#">Lab019</a>	5	15.3	15.0	4	0.1	0.7	3.3	20	>6	15.3	15.1	43	0.4	2.6	6.6	20	>6
<a href="#">Lab020</a>	5	15.4	14.7	2	-	-	-	20	-	15.4	15.2	6	0.5	3.3	7.9	20	5.7
<a href="#">Lab026</a>	5	15.9	14.9	8	0.8	5.4	17.0	20	2.5	15.9	15.3	125	0.5	3.3	10.3	20	4.9
<a href="#">Lab027</a>	5	11.5	-	0	-	-	-	20	-	11.5	16.2	53	1.4	8.6	58.2	20	-2.4
<a href="#">Lab032</a>	5	15.9	-	0	-	-	-	20	-	15.9	15.8	22	1.0	6.3	13.3	20	3.1
<a href="#">Lab033</a>	5	14.4	15.0	5	0.3	2.0	8.2	20	>6	14.4	14.8	32	0.6	4.1	10.9	20	4.2
<a href="#">Lab034</a>	5	14.4	14.5	5	0.3	2.1	4.8	20	>6	14.4	14.2	37	0.5	3.5	8.4	20	5.3
<a href="#">Lab037</a>	5	11.5	15.2	5	0.5	3.3	38.8	20	-3.7	11.5	15.3	7	0.5	3.3	39.6	20	-4.0
<a href="#">Lab040</a>	5	12.5	-	0	-	-	-	20	-	12.5	13.2	38	0.6	4.5	14.7	20	3.2
<a href="#">Lab043</a>	5	11.5	12.8	5	0.3	2.3	16.0	20	3.8	11.5	13.3	42	1.1	8.3	32.2	20	0.5
Total	-	-	14.6	34	0.9	6.2	-	-	-	-	15.0	465	1.2	8.0	-	-	-

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

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

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

Month :

Cumulative : from    to

[TOP](#)

### Control D Month vs. Cumulative

		Control D (Lot No.: AE0909D)															
		Month (2018/11)								CUM (2016/02/01~2018/11/30)							
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
<a href="#">Lab018</a>	5	5.6	-	0	-	-	-	20	-	5.6	5.7	60	0.3	5.3	12.3	20	3.4
<a href="#">Lab019</a>	5	5.3	5.3	4	0.2	3.8	7.5	20	5.3	5.3	5.3	43	0.2	3.8	7.5	20	5.3
<a href="#">Lab020</a>	5	5.5	5.5	2	-	-	-	20	-	5.5	5.5	6	0.1	1.8	3.6	20	>6
<a href="#">Lab026</a>	5	5.8	5.3	8	0.3	5.7	19.9	20	2.0	5.8	5.2	125	0.4	7.7	25.7	20	1.3
<a href="#">Lab027</a>	5	4.5	-	0	-	-	-	20	-	4.5	5.6	53	0.4	7.1	38.7	20	-0.6
<a href="#">Lab032</a>	5	5.8	-	0	-	-	-	20	-	5.8	5.7	22	0.4	7.0	15.8	20	2.6
<a href="#">Lab033</a>	5	5.8	5.3	5	0.0	0.0	8.6	20	>6	5.8	5.3	32	0.2	3.8	16.2	20	3.0
<a href="#">Lab034</a>	5	5.8	5.1	5	0.1	2.0	16.0	20	4.0	5.8	5.1	37	0.2	3.9	19.9	20	2.0
<a href="#">Lab037</a>	5	4.5	5.5	5	0.2	3.6	29.5	20	-0.6	4.5	5.5	7	0.2	3.6	29.5	20	-0.6
<a href="#">Lab040</a>	5	4.5	-	0	-	-	-	20	-	4.5	4.7	38	0.3	6.4	17.2	20	2.4
<a href="#">Lab043</a>	5	4.5	4.9	5	0.2	4.1	17.1	20	2.7	4.5	5.1	42	0.3	5.9	25.1	20	1.1
Total	-	-	5.3	34	0.2	3.8	-	-	-	-	5.3	465	0.4	7.5	-	-	-

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

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

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

Month :

Cumulative : from    to

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5