

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

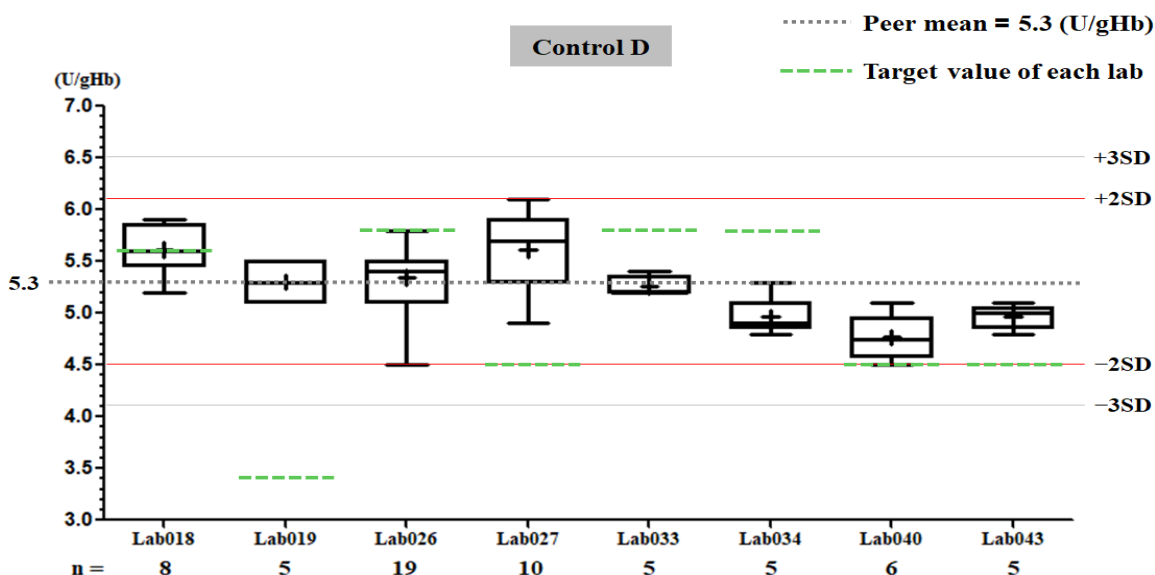
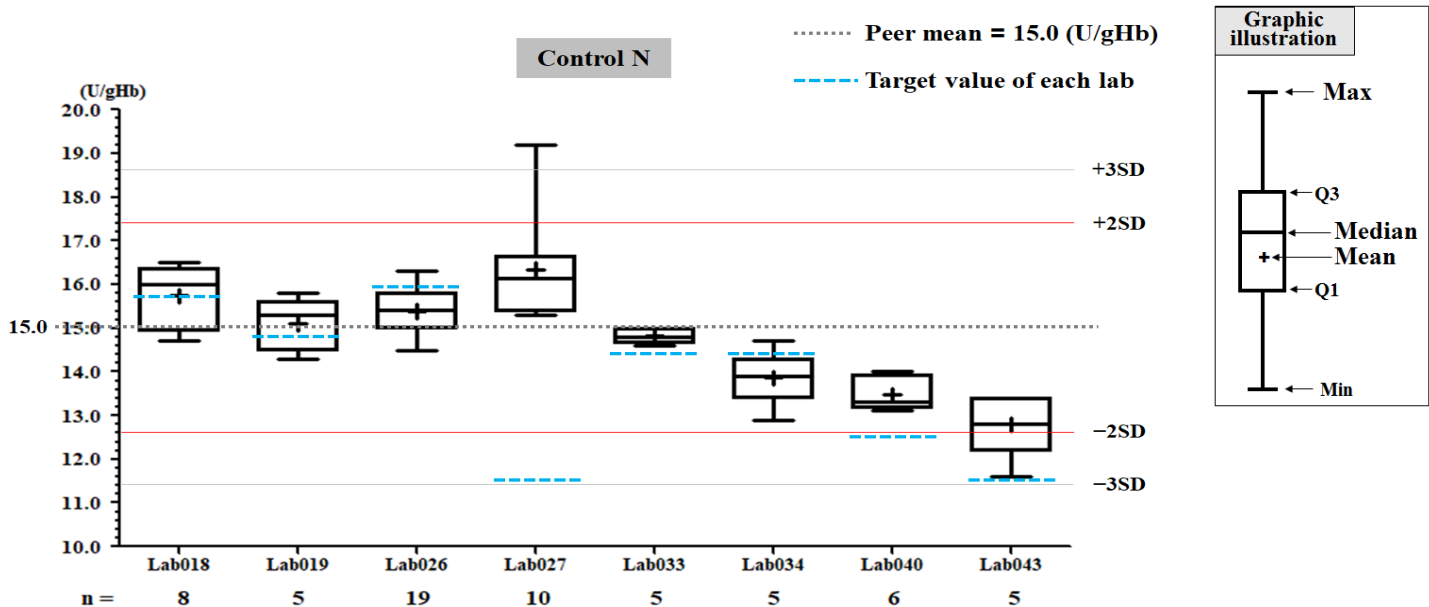
## I. The statistic results of all laboratories in this month

G6PD	Control N (Lot No.:AE0909N)	Control D (Lot No.:AE0909D)
Labs	8	8
Received results number (n)	63	63
Median	15.2 (U/gHb)	5.3 (U/gHb)
Mean	15.0 (U/gHb)	5.3 (U/gHb)
SD	1.2	0.4
CV	8.0%	7.5%
Range of G6PD	11.6 ~ 19.2 (U/gHb)	4.5 ~ 6.1 (U/gHb)
Range of Hb	1.0 ~ 2.3 (g/dL)	1.8 ~ 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 : AE0909N (2016-01-01 ~ 2100-12-31) [Change](#)

[Print Table](#)

## Lab033

QC Control Lot No.	Control N		Control D	
	AE0909N		AE0909D	
Duration of the Analyzing	Month (2018/05)	CUM (2016/02/01~2018/05/31)	Month (2018/05)	CUM (2016/02/01~2018/05/31)
Runs (N)	5	6	5	6
Mean (U/gHb)	14.8	15.0	5.3	5.3
SD	0.2	0.5	0.1	0.2
CV (%)	1.4	3.3	1.9	3.8
Target Value (U/gHb)	14.4	14.4	5.8	5.8
Total Error (%)	5.5	10.8	12.4	16.2
TEa (%)	20	20	20	20
$\sigma$	>6	4.8	6.0	3.0

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

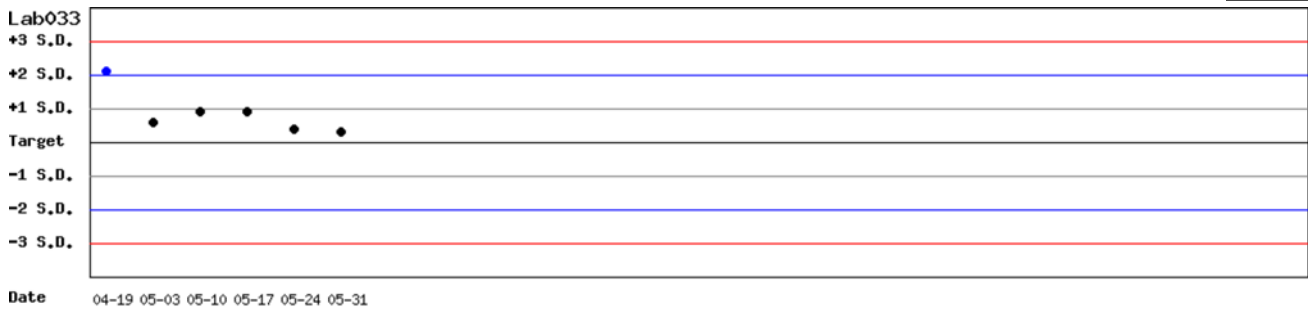
Month : 2018 05 [Change](#) ; Cumulative : from 2016 02 01 to 2018 05 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AE0909N ; Duration : 2016-02-01 to 2018-05-31 ; Target : 14.4 ; SD : 0.70

Lab033



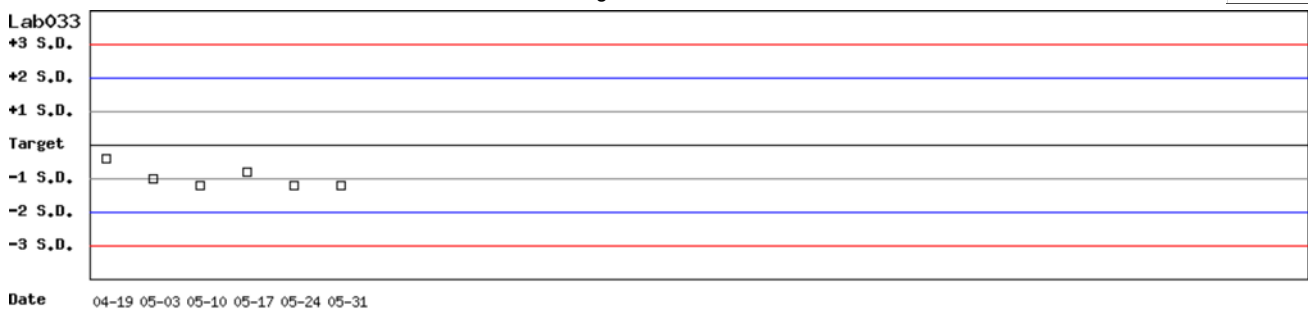
Month : 2018 05 [Change](#) ; Cumulative : from 2016 02 01 to 2018 05 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AE0909D ; Duration : 2016-02-01 to 2018-05-31 ; Target : 5.8 ; SD : 0.50

Lab033



Month : 2018 05 [Change](#) ; Cumulative : from 2016 02 01 to 2018 05 31 [Change](#)

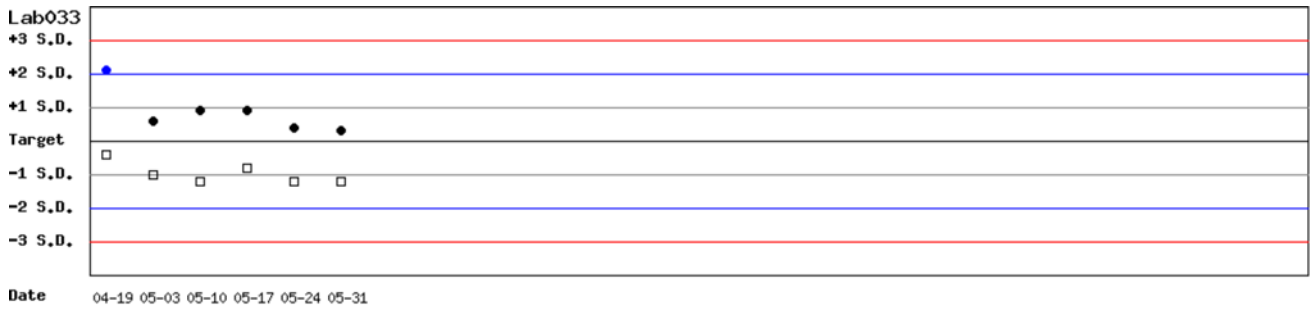
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## Control N and Control D SDI QC Chart

Lot No.: AE0909N ; Duration : 2016-02-01 to 2018-05-31 ; Target : 14.4 ; SD : 0.70 (●)

Lot No.: AE0909D ; Duration : 2016-02-01 to 2018-05-31 ; Target : 5.8 ; SD : 0.50 (□)

Lab033



Month : 2018 05  ; Cumulative : from 2016 02 01 to 2018 05 31

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## Peer Group Statistics (Table 1)

Select LotNo :

Select Reagent Kit :

### Monthly

Month :

		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	15.7	8	0.7	4.5	8.9	20	4.4	5.6	5.6	8	0.2	3.6	7.1	20	5.6
<a href="#">Lab019</a>	5	14.8	15.1	5	0.6	4.0	10.0	20	4.5	3.4	5.3	5	0.2	3.8	63.4	20	-9.4
<a href="#">Lab026</a>	5	15.9	15.4	19	0.4	2.6	8.3	20	>6	5.8	5.3	19	0.3	5.7	19.9	20	2.0
<a href="#">Lab027</a>	5	11.5	16.3	10	1.2	7.4	56.5	20	-2.9	4.5	5.6	10	0.4	7.1	38.7	20	-0.6
<a href="#">Lab033</a>	5	14.4	14.8	5	0.2	1.4	5.5	20	>6	5.8	5.3	5	0.1	1.9	12.4	20	6.0
<a href="#">Lab034</a>	5	14.4	13.9	5	0.6	4.3	12.1	20	3.8	5.8	5.0	5	0.2	4.0	21.8	20	1.6
<a href="#">Lab040</a>	5	12.5	13.5	6	0.4	3.0	13.9	20	4.0	4.5	4.8	6	0.2	4.2	15.0	20	3.2
<a href="#">Lab043</a>	5	11.5	12.8	5	0.7	5.5	22.2	20	1.6	4.5	5.0	5	0.1	2.0	15.1	20	4.4
Total	-	-	15.0	63	1.2	8.0	-	-	-	-	5.3	63	0.4	7.5	-	-	-

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

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

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

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### Cumulative

Cumulative : from    to

		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	37	0.8	5.0	12.5	20	3.5	5.6	5.7	37	0.3	5.3	12.3	20	3.4
<a href="#">Lab019</a>	5	14.8	15.0	16	0.4	2.7	6.7	20	>6	3.4	5.2	16	0.2	3.8	60.6	20	-8.7
<a href="#">Lab026</a>	5	15.9	15.6	35	0.5	3.2	8.3	20	5.7	5.8	5.1	35	0.7	13.7	39.5	20	0.6
<a href="#">Lab027</a>	5	11.5	15.4	18	1.7	11.0	56.0	20	-1.3	4.5	5.4	18	0.4	7.4	34.8	20	0.0
<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	15.0	6	0.5	3.3	10.8	20	4.8	5.8	5.3	6	0.2	3.8	16.2	20	3.0
<a href="#">Lab034</a>	5	14.4	13.8	11	0.6	4.3	12.9	20	3.7	5.8	4.9	11	0.2	4.1	23.7	20	1.1
<a href="#">Lab040</a>	5	12.5	12.8	21	0.6	4.7	11.8	20	3.7	4.5	4.6	21	0.3	6.5	15.3	20	2.7
<a href="#">Lab043</a>	5	11.5	14.0	19	1.1	7.9	37.5	20	-0.2	4.5	5.2	19	0.3	5.8	27.1	20	0.8
Total	-	-	15.1	185	1.4	9.3	-	-	-	-	5.3	185	0.5	9.4	-	-	-

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 :

Select Reagent Kit :

### Control N Month vs. Cumulative

		Control N (Lot No.: AE0909N)															
		Month (2018/05)								CUM (2016/02/01~2018/05/31)							
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	15.7	15.7	8	0.7	4.5	8.9	20	4.4	15.7	16.1	37	0.8	5.0	12.5	20	3.5
<a href="#">Lab019</a>	5	14.8	15.1	5	0.6	4.0	10.0	20	4.5	14.8	15.0	16	0.4	2.7	6.7	20	>6
<a href="#">Lab026</a>	5	15.9	15.4	19	0.4	2.6	8.3	20	>6	15.9	15.6	35	0.5	3.2	8.3	20	5.7
<a href="#">Lab027</a>	5	11.5	16.3	10	1.2	7.4	56.5	20	-2.9	11.5	15.4	18	1.7	11.0	56.0	20	-1.3
<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	14.8	5	0.2	1.4	5.5	20	>6	14.4	15.0	6	0.5	3.3	10.8	20	4.8
<a href="#">Lab034</a>	5	14.4	13.9	5	0.6	4.3	12.1	20	3.8	14.4	13.8	11	0.6	4.3	12.9	20	3.7
<a href="#">Lab040</a>	5	12.5	13.5	6	0.4	3.0	13.9	20	4.0	12.5	12.8	21	0.6	4.7	11.8	20	3.7
<a href="#">Lab043</a>	5	11.5	12.8	5	0.7	5.5	22.2	20	1.6	11.5	14.0	19	1.1	7.9	37.5	20	-0.2
Total	-	-	15.0	63	1.2	8.0	-	-	-	-	15.1	185	1.4	9.3	-	-	-

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

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

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

Month :

Cumulative : from    to

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### Control D Month vs. Cumulative

		Control D (Lot No.: AE0909D)															
		Month (2018/05)								CUM (2016/02/01~2018/05/31)							
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	5.6	5.6	8	0.2	3.6	7.1	20	5.6	5.6	5.7	37	0.3	5.3	12.3	20	3.4
<a href="#">Lab019</a>	5	3.4	5.3	5	0.2	3.8	63.4	20	-9.4	3.4	5.2	16	0.2	3.8	60.6	20	-8.7
<a href="#">Lab026</a>	5	5.8	5.3	19	0.3	5.7	19.9	20	2.0	5.8	5.1	35	0.7	13.7	39.5	20	0.6
<a href="#">Lab027</a>	5	4.5	5.6	10	0.4	7.1	38.7	20	-0.6	4.5	5.4	18	0.4	7.4	34.8	20	0.0
<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	0.1	1.9	12.4	20	6.0	5.8	5.3	6	0.2	3.8	16.2	20	3.0
<a href="#">Lab034</a>	5	5.8	5.0	5	0.2	4.0	21.8	20	1.6	5.8	4.9	11	0.2	4.1	23.7	20	1.1
<a href="#">Lab040</a>	5	4.5	4.8	6	0.2	4.2	15.0	20	3.2	4.5	4.6	21	0.3	6.5	15.3	20	2.7
<a href="#">Lab043</a>	5	4.5	5.0	5	0.1	2.0	15.1	20	4.4	4.5	5.2	19	0.3	5.8	27.1	20	0.8
Total	-	-	5.3	63	0.4	7.5	-	-	-	-	5.3	185	0.5	9.4	-	-	-

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