

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

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

[Print Table](#)

## Lab034

QC Control Lot No.	Control N		Control D	
	AE0909N		AE0909D	
Duration of the Analyzing	Month (2020/02)	CUM (2019/08/15~2020/02/29)	Month (2020/02)	CUM (2019/08/15~2020/02/29)
Runs (N)	4	26	4	26
Mean (U/gHb)	16.1	15.0	5.1	4.8
SD	0.4	1.0	0.2	0.3
CV (%)	2.5	6.7	3.9	6.3
Target Value (U/gHb)	14.4	14.4	5.8	5.8
Total Error (%)	16.8	17.5	19.9	29.7
TEa (%)	20	20	20	20
$\sigma$	3.3	2.4	2.0	0.4

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

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

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

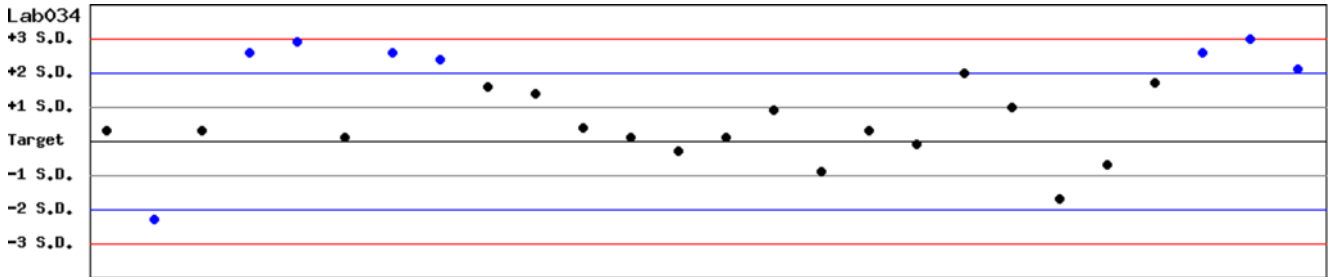
Month : 2020 02 [Change](#) ; Cumulative : from 2019 08 15 to 2020 02 29 [Change](#)

[\[TOP\]](#)

## Control N SDI QC Chart

Lot No.: AE0909N ; Duration : 2019-08-15 to 2020-02-29 ; Target : 14.4 ; SD : 0.70

Lab034



Date 08-15 08-23 08-30 09-05 09-12 09-19 09-26 10-03 10-17 10-24 10-31 11-07 11-14 11-21 12-05 12-12 12-19 01-02 01-09 01-16 01-23 01-30 02-06 02-13 02-20 02-27

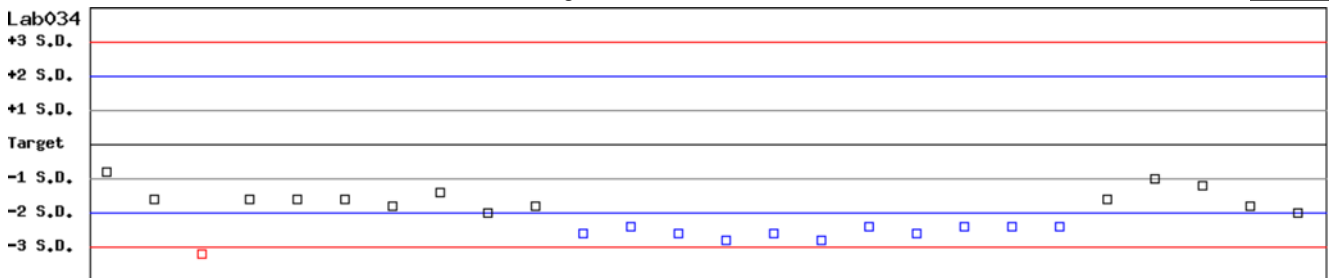
Month : 2020 02 [Change](#) ; Cumulative : from 2019 08 15 to 2020 02 29 [Change](#)

[\[TOP\]](#)

## Control D SDI QC Chart

Lot No.: AE0909D ; Duration : 2019-08-15 to 2020-02-29 ; Target : 5.8 ; SD : 0.50

Lab034



Date 08-15 08-23 08-30 09-05 09-12 09-19 09-26 10-03 10-17 10-24 10-31 11-07 11-14 11-21 12-05 12-12 12-19 01-02 01-09 01-16 01-23 01-30 02-06 02-13 02-20 02-27

Month : 2020 02 [Change](#) ; Cumulative : from 2019 08 15 to 2020 02 29 [Change](#)

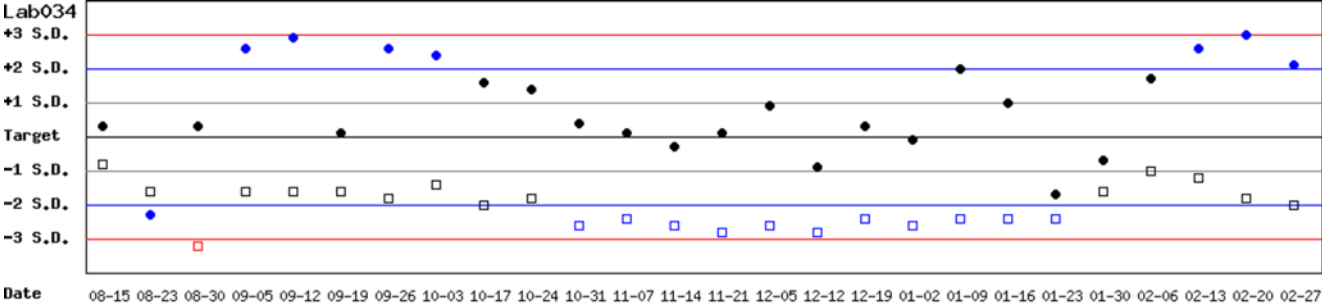
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## Control N and Control D SDI QC Chart

Lot No.: AE0909N ; Duration : 2019-08-15 to 2020-02-29 ; Target : 14.4 ; SD : 0.70 (●)

Lot No.: AE0909D ; Duration : 2019-08-15 to 2020-02-29 ; Target : 5.8 ; SD : 0.50 (□)

Lab034



Month : 2020 | 02 |  ; Cumulative : from 2019 | 08 | 15 to 2020 | 02 | 29 |

[\[TOP\]](#)

## 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 : 2020 ▼ 02 ▼ Change

		Control N (Lot No.: AE0909N)									Control D (Lot No.: AE0909D)						
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="#">Lab019</a>	5	15.3	15.5	4	0.3	1.9	5.2	20	>6	5.3	5.4	4	0.1	1.9	5.6	20	>6
<a href="#">Lab026</a>	5	15.9	12.9	20	0.1	0.8	20.4	20	1.4	5.8	5.0	20	0.0	0.0	13.8	20	>6
<a href="#">Lab034</a>	5	14.4	16.1	4	0.4	2.5	16.8	20	3.3	5.8	5.1	4	0.2	3.9	19.9	20	2.0
<b>Total</b>	-	-	13.7	28	1.3	9.5	-	-	-	-	5.1	28	0.2	3.9	-	-	-

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 2020 ▼ 02 ▼ 29 ▼ Change

		Control N (Lot No.: AE0909N)									Control D (Lot No.: AE0909D)						
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	14.2	14.9	142	1.2	8.1	21.0	20	1.9	5.5	5.5	142	0.3	5.5	10.9	20	3.6
<a href="#">Lab019</a>	5	15.3	15.2	103	0.3	2.0	4.6	20	>6	5.3	5.3	103	0.1	1.9	3.8	20	>6
<a href="#">Lab020</a>	5	14.4	15.2	28	0.5	3.3	12.1	20	4.4	5.8	5.3	28	0.3	5.7	19.9	20	2.0
<a href="#">Lab026</a>	5	15.9	13.6	338	1.3	9.6	33.6	20	0.6	5.8	5.1	338	0.3	5.9	23.8	20	1.3
<a href="#">Lab027</a>	5	15.5	15.5	107	1.3	8.4	16.8	20	2.4	5.4	5.6	107	0.5	8.9	21.6	20	1.8
<a href="#">Lab028</a>	5	14.8	14.5	134	0.7	4.8	11.7	20	3.7	4.8	5.6	134	0.3	5.4	27.4	20	0.6
<a href="#">Lab032</a>	5	15.3	15.9	38	0.9	5.7	15.2	20	2.8	5.2	5.7	38	0.3	5.3	20.1	20	2.0
<a href="#">Lab033</a>	5	14.4	14.9	49	0.6	4.0	11.5	20	4.1	5.8	5.2	49	0.2	3.8	18.0	20	2.5
<a href="#">Lab034</a>	5	14.4	14.5	82	0.8	5.5	11.7	20	3.5	5.8	5.0	82	0.4	8.0	29.8	20	0.8
<a href="#">Lab037</a>	5	14.9	15.2	30	0.8	5.3	12.5	20	3.4	5.4	5.5	30	0.3	5.5	12.8	20	3.3
<a href="#">Lab040</a>	5	14.4	13.3	39	0.7	5.3	18.2	20	2.3	5.8	4.7	39	0.3	6.4	31.7	20	0.2
<a href="#">Lab043</a>	5	11.5	13.1	84	0.9	6.9	27.7	20	0.9	4.5	4.9	84	0.3	6.1	21.1	20	1.8
<b>Total</b>	-	-	14.4	1174	1.3	9.0	-	-	-	-	5.3	1174	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 : AE0909N (2016-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 2

### Control N Month vs. Cumulative

Control N (Lot No.: AE0909N)																	
		Month (2020/02)								CUM (2016/02/01~2020/02/29)							
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	14.2	-	0	-	-	-	20	-	14.2	14.9	142	1.2	8.1	21.0	20	1.9
<a href="#">Lab019</a>	5	15.3	15.5	4	0.3	1.9	5.2	20	>6	15.3	15.2	103	0.3	2.0	4.6	20	>6
<a href="#">Lab020</a>	5	14.4	-	0	-	-	-	20	-	14.4	15.2	28	0.5	3.3	12.1	20	4.4
<a href="#">Lab026</a>	5	15.9	12.9	20	0.1	0.8	20.4	20	1.4	15.9	13.6	338	1.3	9.6	33.6	20	0.6
<a href="#">Lab027</a>	5	15.5	-	0	-	-	-	20	-	15.5	15.5	107	1.3	8.4	16.8	20	2.4
<a href="#">Lab028</a>	5	14.8	-	0	-	-	-	20	-	14.8	14.5	134	0.7	4.8	11.7	20	3.7
<a href="#">Lab032</a>	5	15.3	-	0	-	-	-	20	-	15.3	15.9	38	0.9	5.7	15.2	20	2.8
<a href="#">Lab033</a>	5	14.4	-	0	-	-	-	20	-	14.4	14.9	49	0.6	4.0	11.5	20	4.1
<a href="#">Lab034</a>	5	14.4	16.1	4	0.4	2.5	16.8	20	3.3	14.4	14.5	82	0.8	5.5	11.7	20	3.5
<a href="#">Lab037</a>	5	14.9	-	0	-	-	-	20	-	14.9	15.2	30	0.8	5.3	12.5	20	3.4
<a href="#">Lab040</a>	5	14.4	-	0	-	-	-	20	-	14.4	13.3	39	0.7	5.3	18.2	20	2.3
<a href="#">Lab043</a>	5	11.5	-	0	-	-	-	20	-	11.5	13.1	84	0.9	6.9	27.7	20	0.9
Total	-	-	13.7	28	1.3	9.5	-	-	-	-	14.4	1174	1.3	9.0	-	-	-

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

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

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

Month : 2020 02 Change

Cumulative : from 2016 02 01 to 2020 02 29 Change

[TOP](#)

### Control D Month vs. Cumulative

Control D (Lot No.: AE0909D)																	
		Month (2020/02)								CUM (2016/02/01~2020/02/29)							
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	5.5	-	0	-	-	-	20	-	5.5	5.5	142	0.3	5.5	10.9	20	3.6
<a href="#">Lab019</a>	5	5.3	5.4	4	0.1	1.9	5.6	20	>6	5.3	5.3	103	0.1	1.9	3.8	20	>6
<a href="#">Lab020</a>	5	5.8	-	0	-	-	-	20	-	5.8	5.3	28	0.3	5.7	19.9	20	2.0
<a href="#">Lab026</a>	5	5.8	5.0	20	0.0	0.0	13.8	20	>6	5.8	5.1	338	0.3	5.9	23.8	20	1.3
<a href="#">Lab027</a>	5	5.4	-	0	-	-	-	20	-	5.4	5.6	107	0.5	8.9	21.6	20	1.8
<a href="#">Lab028</a>	5	4.8	-	0	-	-	-	20	-	4.8	5.6	134	0.3	5.4	27.4	20	0.6
<a href="#">Lab032</a>	5	5.2	-	0	-	-	-	20	-	5.2	5.7	38	0.3	5.3	20.1	20	2.0
<a href="#">Lab033</a>	5	5.8	-	0	-	-	-	20	-	5.8	5.2	49	0.2	3.8	18.0	20	2.5
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<a href="#">Lab037</a>	5	5.4	-	0	-	-	-	20	-	5.4	5.5	30	0.3	5.5	12.8	20	3.3
<a href="#">Lab040</a>	5	5.8	-	0	-	-	-	20	-	5.8	4.7	39	0.3	6.4	31.7	20	0.2
<a href="#">Lab043</a>	5	4.5	-	0	-	-	-	20	-	4.5	4.9	84	0.3	6.1	21.1	20	1.8
Total	-	-	5.1	28	0.2	3.9	-	-	-	-	5.3	1174	0.4	7.5	-	-	-

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

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

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

Month : 2020 02 Change

Cumulative : from 2016 02 01 to 2020 02 29 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5