

# 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 (2020/03)	CUM (2019/09/01~2020/03/31)	Month (2020/03)	CUM (2019/09/01~2020/03/31)
Runs (N)	3	26	3	26
Mean (U/gHb)	16.0	15.2	4.9	4.8
SD	0.4	0.9	0.1	0.3
CV (%)	2.5	5.9	2.0	6.3
Target Value (U/gHb)	14.4	14.4	5.8	5.8
Total Error (%)	16.1	17.4	19.6	29.7
TEa (%)	20	20	20	20
$\sigma$	3.6	2.4	2.2	0.4

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

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

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

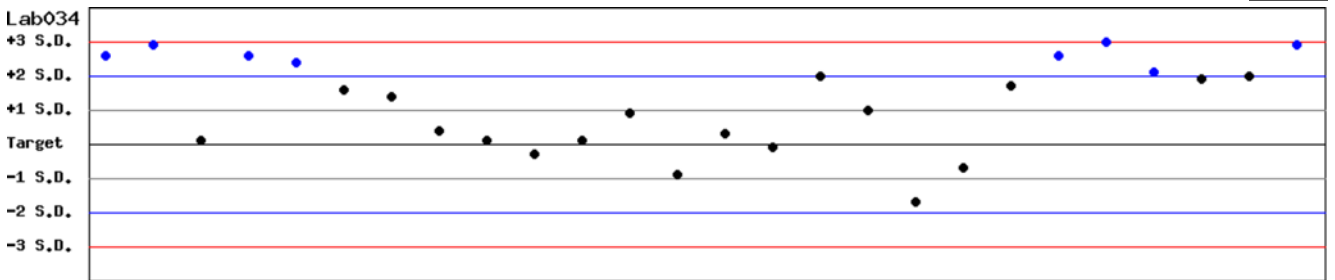
Month : 2020 03 [Change](#) ; Cumulative : from 2019 09 01 to 2020 03 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AE0909N ; Duration : 2019-09-01 to 2020-03-31 ; Target : 14.4 ; SD : 0.70

Lab034



Date 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 03-05 03-12 03-19

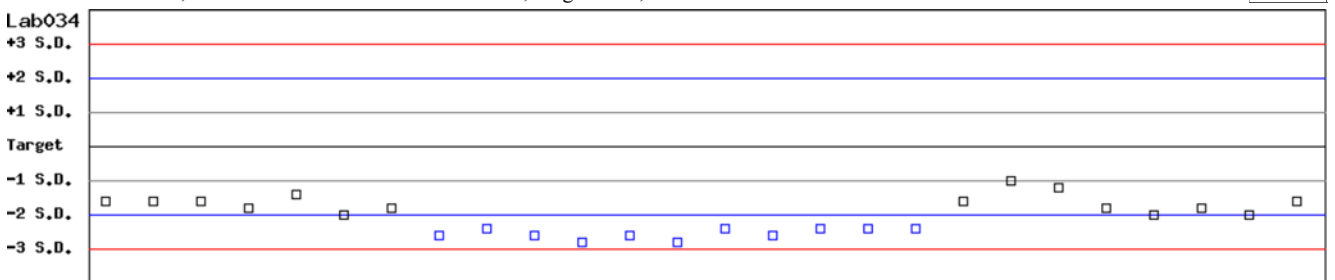
Month : 2020 03 [Change](#) ; Cumulative : from 2019 09 01 to 2020 03 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AE0909D ; Duration : 2019-09-01 to 2020-03-31 ; Target : 5.8 ; SD : 0.50

Lab034



Date 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 03-05 03-12 03-19

Month : 2020 03 [Change](#) ; Cumulative : from 2019 09 01 to 2020 03 31 [Change](#)

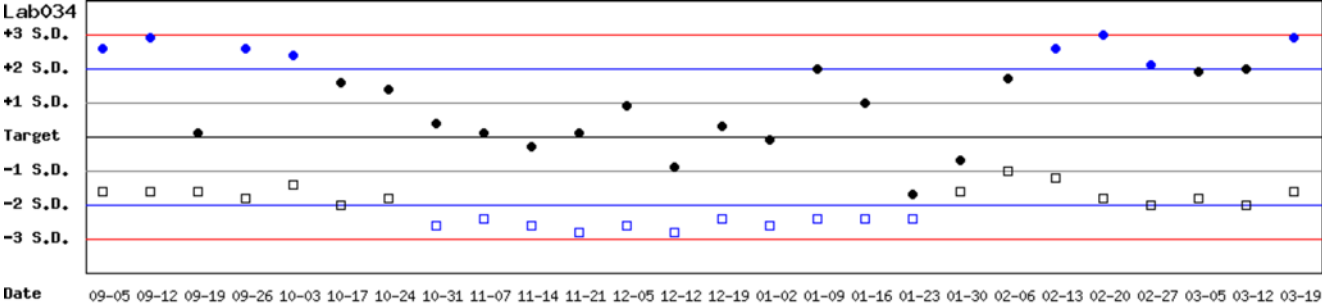
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## Control N and Control D SDI QC Chart

Lot No.: AE0909N ; Duration : 2019-09-01 to 2020-03-31 ; Target : 14.4 ; SD : 0.70 (●)

Lot No.: AE0909D ; Duration : 2019-09-01 to 2020-03-31 ; Target : 5.8 ; SD : 0.50 (□)

Lab034



Month : 2020 | 03 |  ; Cumulative : from 2019 | 09 | 01 to 2020 | 03 | 31 |

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## 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 ▼ 03 ▼ 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	15.3	3	0.3	2.0	3.9	20	>6	5.3	5.3	3	0.1	1.9	3.8	20	>6
<a href="#">Lab026</a>	5	15.9	12.9	13	0.1	0.8	20.4	20	1.4	5.8	5.0	13	0.0	0.0	13.8	20	>6
<a href="#">Lab034</a>	5	14.4	16.0	3	0.4	2.5	16.1	20	3.6	5.8	4.9	3	0.1	2.0	19.6	20	2.2
<b>Total</b>	-	-	13.8	19	1.3	9.4	-	-	-	-	5.0	19	0.1	2.0	-	-	-

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

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

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

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### Cumulative

Cumulative : from 2016 ▼ 02 ▼ 01 ▼ to 2020 ▼ 03 ▼ 31 ▼ 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	106	0.3	2.0	4.6	20	>6	5.3	5.3	106	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	351	1.3	9.6	33.6	20	0.6	5.8	5.1	351	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	85	0.9	6.2	13.1	20	3.1	5.8	5.0	85	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	1193	1.3	9.0	-	-	-	-	5.3	1193	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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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 (2020/03)								CUM (2016/02/01~2020/03/31)							
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	15.3	3	0.3	2.0	3.9	20	>6	15.3	15.2	106	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	13	0.1	0.8	20.4	20	1.4	15.9	13.6	351	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	16.0	3	0.4	2.5	16.1	20	3.6	14.4	14.5	85	0.9	6.2	13.1	20	3.1
<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
<b>Total</b>	-	-	13.8	19	1.3	9.4	-	-	-	-	14.4	1193	1.3	9.0	-	-	-

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

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

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

Month : 2020 03 Change

Cumulative : from 2016 02 01 to 2020 03 31 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AE0909D)															
		Month (2020/03)								CUM (2016/02/01~2020/03/31)							
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	5.3	3	0.1	1.9	3.8	20	>6	5.3	5.3	106	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	13	0.0	0.0	13.8	20	>6	5.8	5.1	351	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
<a href="#">Lab034</a>	5	5.8	4.9	3	0.1	2.0	19.6	20	2.2	5.8	5.0	85	0.4	8.0	29.8	20	0.8
<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
<b>Total</b>	-	-	5.0	19	0.1	2.0	-	-	-	-	5.3	1193	0.4	7.5	-	-	-

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

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

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

Month : 2020 03 Change

Cumulative : from 2016 02 01 to 2020 03 31 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5