

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

Select LotNo : AC1203N (2014-01-01 ~ 2100-12-31) [Change](#)

[Print Table](#)

Lab019

	Control N		Control D	
QC Control Lot No.	AC1203N		AC1203D	
Duration of the Analyzing	Month (2017/11)	CUM (2017/03/15~2017/11/30)	Month (2017/11)	CUM (2017/03/15~2017/11/30)
Runs (N)	3	26	3	26
Mean (U/gHb)	14.1	12.1	3.3	2.8
SD	0.4	1.6	0.2	0.4
CV (%)	2.8	13.2	6.1	14.3
Target Value (U/gHb)	12.1	12.1	2.8	2.8
Total Error (%)	22.2	26.4	30.0	28.6
TEa (%)	20	20	20	20
σ	1.2	1.5	0.4	1.4

Bias (%) = $\left[\frac{(\text{Mean} - \text{Target})}{\text{Target}} \right] \times 100\%$

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

σ (Sigma) = $[\text{TEa\%} - \text{Bias (\%)}] / \text{CV (\%)}$

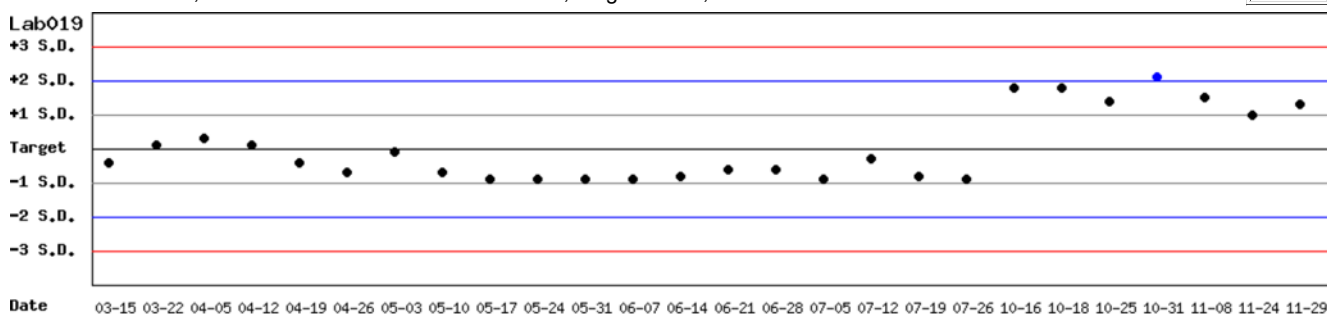
Month : 2017 11 [Change](#) ; Cumulative : from 2017 03 15 to 2017 11 30 [Change](#)

[TOP](#)

Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2017-03-15 to 2017-11-30 ; Target : 12.1 ; SD : 1.60

Lab019



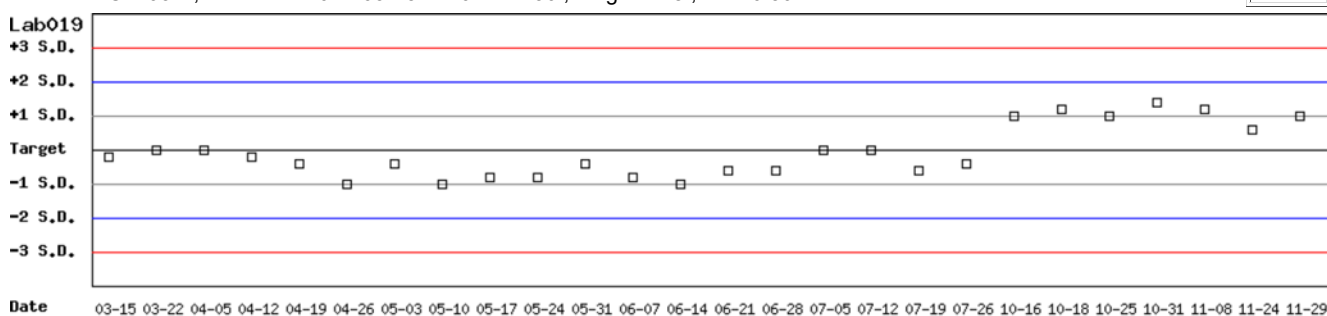
Month : 2017 11 [Change](#) ; Cumulative : from 2017 03 15 to 2017 11 30 [Change](#)

[TOP](#)

Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2017-03-15 to 2017-11-30 ; Target : 2.8 ; SD : 0.50

Lab019



Month : 2017 11 [Change](#) ; Cumulative : from 2017 03 15 to 2017 11 30 [Change](#)

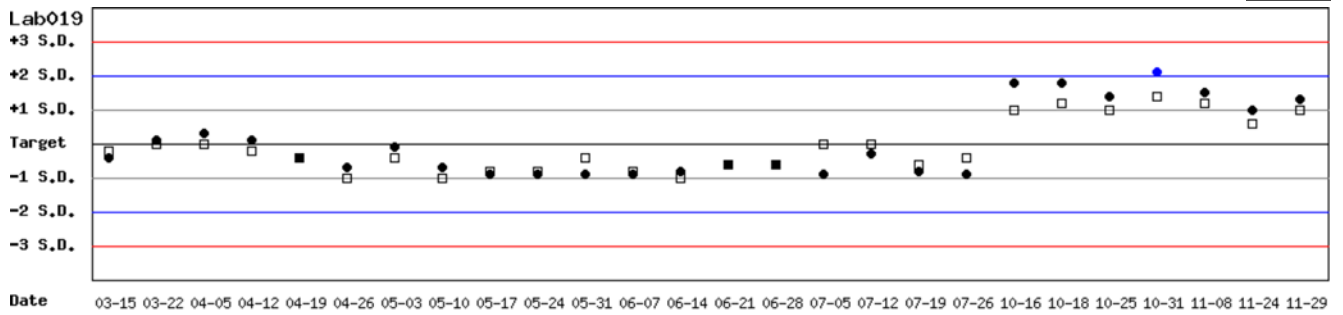
[TOP](#)

Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2017-03-15 to 2017-11-30 ; Target : 12.1 ; SD : 1.60 (●)

Lot No.: AC1203D ; Duration : 2017-03-15 to 2017-11-30 ; Target : 2.8 ; SD : 0.50 (□)

Lab019



Month : 2017 11 [Change](#) ; Cumulative : from 2017 03 15 to 2017 11 30 [Change](#)

[TOP](#)

Peer Group Statistics (Table 1)

Select LotNo : AC1203N (2014-01-01 ~ 2100-12-31) ▼ Change

Select Reagent Kit : 5 - Medicon ▼ Change

Print Table 1

Monthly

Month : 2017 ▼ 11 ▼ Change

		Control N (Lot No.: AC1203N)									Control D (Lot No.: AC1203D)						
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 (%)
Lab019	5	12.1	14.1	3	0.4	2.8	22.2	20	1.2		2.8	3.3	3	0.2	6.1	30.0	20
Lab037	5	12.6	14.9	2	-	-	-	20	-		3.0	3.6	2	-	-	-	20
Lab041	5	12.8	12.9	1	-	-	-	20	-		2.9	3.2	1	-	-	-	20
Total	-	-	14.2	6	0.8	5.6	-	-	-		-	3.4	6	0.2	5.9	-	-

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

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

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

[\[TOP\]](#)

Cumulative

Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2017 ▼ 11 ▼ 30 ▼ Change

		Control N (Lot No.: AC1203N)										Control D (Lot No.: AC1203D)						
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 (%)	
Lab019	5	12.1	14.6	7	0.6	4.1	28.9	20	-0.2		2.8	3.3	7	0.1	3.0	23.9	20	
Lab037	5	12.6	14.9	2	-	-	-	20	-		3.0	3.6	2	-	-	-	20	
Lab041	5	12.8	12.9	1	-	-	-	20	-		2.9	3.2	1	-	-	-	20	
Total	-	-	14.5	10	0.8	5.5	-	-	-		-	3.4	10	0.2	5.9	-	-	

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 : AC1203N (2014-01-01 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

[Print Table 2](#)

Control N Month vs. Cumulative

		Control N (Lot No.: AC1203N)															
		Month (2017/11)								CUM (2014/02/01~2017/11/30)							
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
Lab019	5	12.1	14.1	3	0.4	2.8	22.2	20	1.2	12.1	14.6	7	0.6	4.1	28.9	20	-0.2
Lab037	5	12.6	14.9	2	-	-	-	20	-	12.6	14.9	2	-	-	-	20	-
Lab041	5	12.8	12.9	1	-	-	-	20	-	12.8	12.9	1	-	-	-	20	-
Total	-	-	14.2	6	0.8	5.6	-	-	-	-	14.5	10	0.8	5.5	-	-	-

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

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

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

Month : 2017 ▼ 11 ▼ Change Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2017 ▼ 11 ▼ 30 ▼ Change

[TOP](#)

Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2017/11)								CUM (2014/02/01~2017/11/30)							
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
Lab019	5	2.8	3.3	3	0.2	6.1	30.0	20	0.4	2.8	3.3	7	0.1	3.0	23.9	20	0.7
Lab037	5	3.0	3.6	2	-	-	-	20	-	3.0	3.6	2	-	-	-	20	-
Lab041	5	2.9	3.2	1	-	-	-	20	-	2.9	3.2	1	-	-	-	20	-
Total	-	-	3.4	6	0.2	5.9	-	-	-	-	3.4	10	0.2	5.9	-	-	-

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

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

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

Month : 2017 ▼ 11 ▼ Change Cumulative : from 2014 ▼ 02 ▼ 01 ▼ to 2017 ▼ 11 ▼ 30 ▼ Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5