

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

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

[Print Table](#)

Lab028

	Control N		Control D	
QC Control Lot No.	AC1203N		AC1203D	
Duration of the Analyzing	Month (2018/04)	CUM (2018/03/01~2018/04/30)	Month (2018/04)	CUM (2018/03/01~2018/04/30)
Runs (N)	11	26	11	26
Mean (U/gHb)	15.1	15.2	3.7	3.6
SD	0.8	0.8	0.1	0.2
CV (%)	5.3	5.3	2.7	5.6
Target Value (U/gHb)	14.2	14.2	3.3	3.3
Total Error (%)	16.9	17.6	17.5	20.2
TEa (%)	20	20	20	20
σ	2.6	2.4	2.9	1.9

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

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

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

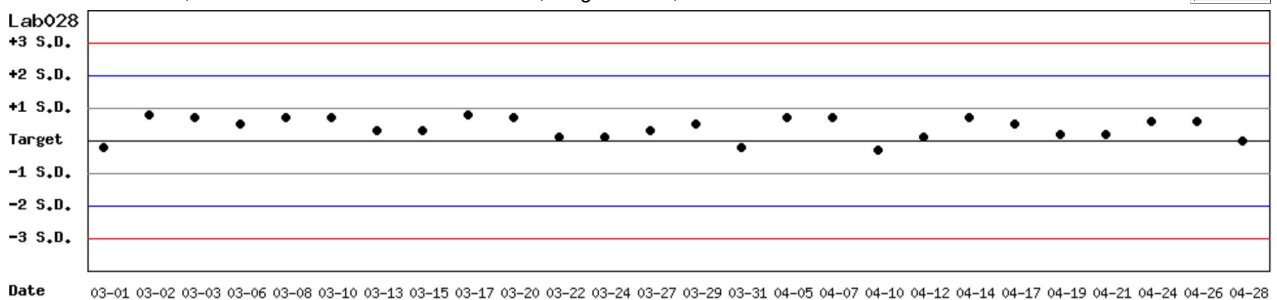
Month : 2018 04 [Change](#) ; Cumulative : from 2018 03 01 to 2018 04 30 [Change](#)

[TOP](#)

Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2018-03-01 to 2018-04-30 ; Target : 14.2 ; SD : 2.6

Lab028



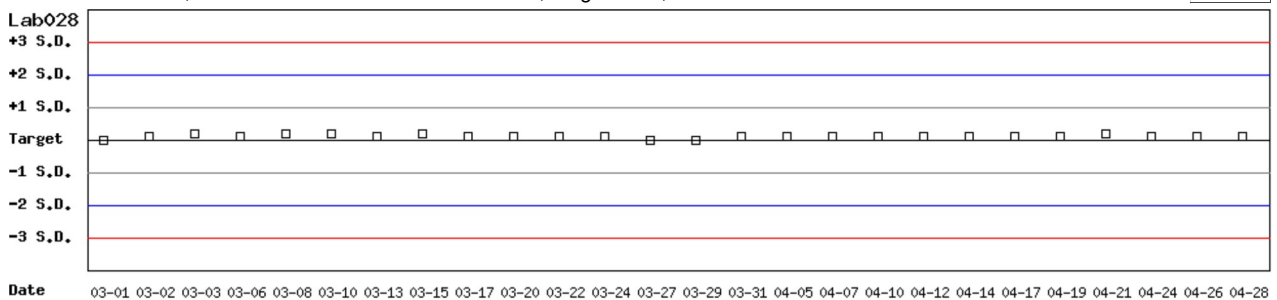
Month : 2018 04 [Change](#) ; Cumulative : from 2018 03 01 to 2018 04 30 [Change](#)

[TOP](#)

Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2018-03-01 to 2018-04-30 ; Target : 3.3 ; SD : 3.1

Lab028



Month : 2018 04 [Change](#) ; Cumulative : from 2018 03 01 to 2018 04 30 [Change](#)

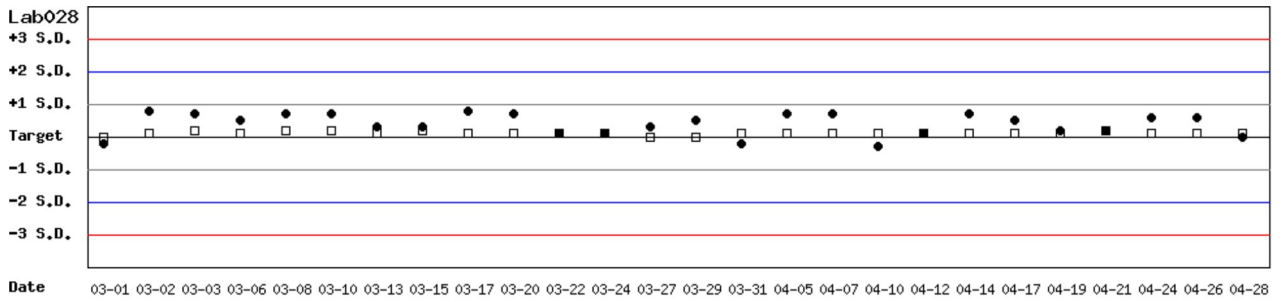
[TOP](#)

Control N and Control D SDI QC Chart

Lot No.: AC1203N ; Duration : 2018-03-01 to 2018-04-30 ; Target : 14.2 ; SD : 2.6 (●)

Lot No.: AC1203D ; Duration : 2018-03-01 to 2018-04-30 ; Target : 3.3 ; SD : 3.1 (□)

Lab028



Month : 2018 04 Change ; Cumulative : from 2018 03 01 to 2018 04 30 Change

[TOP](#)

Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon

Monthly

Month : 2018

		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 (%)	σ
Lab020	5	14.2	14.9	4	1.0	6.7	18.4	20	2.2	3.3	3.4	4	0.1	2.9	8.9	20	5.9
Lab021	5	12.3	15.6	4	0.2	1.3	29.4	20	-5.3	2.8	4.0	4	1.1	27.5	97.9	20	-0.8
Lab028	5	14.2	15.1	11	0.8	5.3	16.9	20	2.6	3.3	3.7	11	0.1	2.7	17.5	20	2.9
Total	-	-	15.2	19	0.8	5.3	-	-	-	-	3.7	19	0.5	13.5	-	-	-

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

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

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

[\[TOP\]](#)

Cumulative

Cumulative : from 2014 to 2018

		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 (%)	σ
Lab019	5	14.8	14.9	30	0.7	4.7	10.1	20	4.1	3.4	3.6	30	0.6	16.7	39.2	20	0.8
Lab020	5	14.2	15.2	16	0.5	3.3	13.6	20	3.9	3.3	3.4	16	0.1	2.9	8.9	20	5.9
Lab021	5	12.3	15.4	7	0.3	1.9	29.1	20	-2.7	2.8	3.7	7	0.8	21.6	75.4	20	-0.6
Lab026	5	14.6	14.7	16	0.5	3.4	7.5	36	>6	3.2	3.2	16	0.1	3.1	6.3	36	>6
Lab028	5	14.2	15.1	49	0.9	6.0	18.3	20	2.3	3.3	3.6	49	0.2	5.6	20.2	20	1.9
Lab037	5	12.6	15.7	15	0.5	3.2	31.0	20	-1.4	3.0	3.5	15	0.1	2.9	22.4	20	1.1
Lab041	5	12.8	12.9	1	-	-	-	20	-	2.9	3.2	1	-	-	-	20	-
Total	-	-	15.1	134	0.8	5.3	-	-	-	-	3.5	134	0.4	11.4	-	-	-

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)

Select Reagent Kit : 5 - Medicon

Control N Month vs. Cumulative

		Control N (Lot No.: AC1203N)															
		Month (2018/04)								CUM (2014/02/01~2018/04/30)							
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	14.8	-	0	-	-	-	20	-	14.8	14.9	30	0.7	4.7	10.1	20	4.1
Lab020	5	14.2	14.9	4	1.0	6.7	18.4	20	2.2	14.2	15.2	16	0.5	3.3	13.6	20	3.9
Lab021	5	12.3	15.6	4	0.2	1.3	29.4	20	-5.3	12.3	15.4	7	0.3	1.9	29.1	20	-2.7
Lab026	5	14.6	-	0	-	-	-	36	-	14.6	14.7	16	0.5	3.4	7.5	36	>6
Lab028	5	14.2	15.1	11	0.8	5.3	16.9	20	2.6	14.2	15.1	49	0.9	6.0	18.3	20	2.3
Lab037	5	12.6	-	0	-	-	-	20	-	12.6	15.7	15	0.5	3.2	31.0	20	-1.4
Lab041	5	12.8	-	0	-	-	-	20	-	12.8	12.9	1	-	-	-	20	-
Total	-	-	15.2	19	0.8	5.3	-	-	-	-	15.1	134	0.8	5.3	-	-	-

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

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

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

Month : 2018 04 Cumulative : from 2014 02 01 to 2018 04 30

[\[TOP\]](#)

Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2018/04)								CUM (2014/02/01~2018/04/30)							
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	3.4	-	0	-	-	-	20	-	3.4	3.6	30	0.6	16.7	39.2	20	0.8
Lab020	5	3.3	3.4	4	0.1	2.9	8.9	20	5.9	3.3	3.4	16	0.1	2.9	8.9	20	5.9
Lab021	5	2.8	4.0	4	1.1	27.5	97.9	20	-0.8	2.8	3.7	7	0.8	21.6	75.4	20	-0.6
Lab026	5	3.2	-	0	-	-	-	36	-	3.2	3.2	16	0.1	3.1	6.3	36	>6
Lab028	5	3.3	3.7	11	0.1	2.7	17.5	20	2.9	3.3	3.6	49	0.2	5.6	20.2	20	1.9
Lab037	5	3.0	-	0	-	-	-	20	-	3.0	3.5	15	0.1	2.9	22.4	20	1.1
Lab041	5	2.9	-	0	-	-	-	20	-	2.9	3.2	1	-	-	-	20	-
Total	-	-	3.7	19	0.5	13.5	-	-	-	-	3.5	134	0.4	11.4	-	-	-

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

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

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

Month : 2018 04 Cumulative : from 2014 02 01 to 2018 04 30

[\[TOP\]](#)

Reagent Kit	Reagent Code
Medicon	5