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 (2018/05)	CUM (2018/03/31~2018/05/31)	Month (2018/05)	CUM (2018/03/31~2018/05/31)
Runs (N)	14	26	14	26
Mean (U/gHb)	15.2	15.1	3.7	3.7
SD	0.7	0.8	0.1	0.1
CV (%)	4.6	5.3	2.7	2.7
Target Value (U/gHb)	14.2	14.2	3.3	3.3
Total Error (%)	16.3	16.9	17.5	17.5
TEa (%)	20	20	20	20
σ	2.8	2.6	2.9	2.9

Bias (%) = [(│Mean - Target│) / Target] x 100%
TE：Total Error(%) = Bias (%) + 2 × CV (%)
σ (Sigma) = [TEa% - Bias (%)] / CV (%)

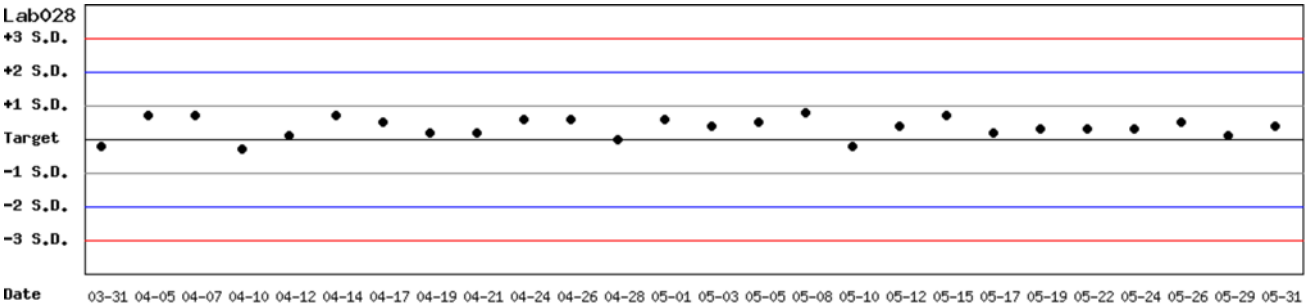
Month : 2018 05 Change ; Cumulative : from 2018 03 31 to 2018 05 31 Change

[TOP]

Control N SDI QC Chart

Lot No.: AC1203N ; Duration : 2018-03-31 to 2018-05-31 ; Target : 14.2 ; SD : 2.6

Lab028



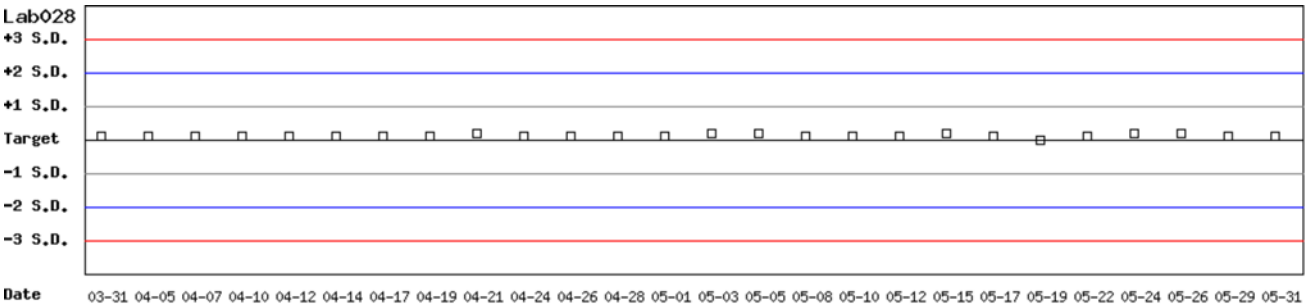
Month : 2018 05 Change ; Cumulative : from 2018 03 31 to 2018 05 31 Change

[TOP]

Control D SDI QC Chart

Lot No.: AC1203D ; Duration : 2018-03-31 to 2018-05-31 ; Target : 3.3 ; SD : 3.1

Lab028



Month : 2018 05 Change ; Cumulative : from 2018 03 31 to 2018 05 31 Change

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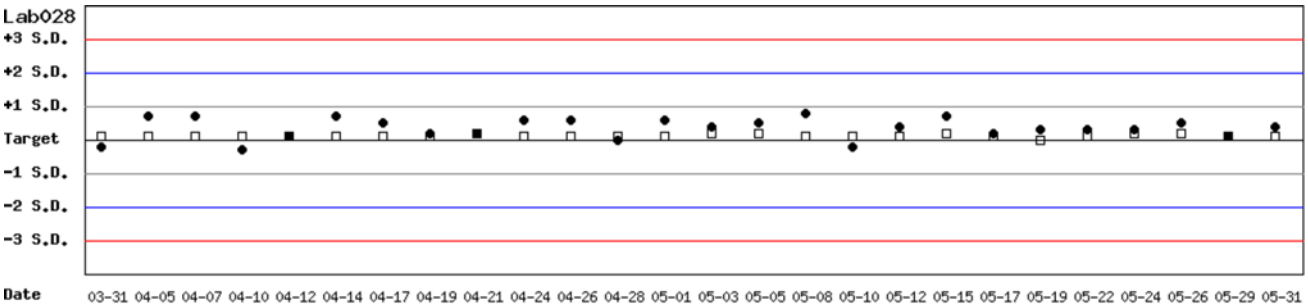
Control N and **Control D SDI**
QC Chart

Lot No.: AC1203N ; Duration : 2018-03-31 to 2018-05-31 ; Target : 14.2 ; SD : 2.6 (●)

Lot No.: AC1203D ; Duration : 2018-03-31 to 2018-05-31 ; Target : 3.3 ; SD : 3.1 (□)

Lab028



Month : 2018 05 Change ; Cumulative : from 2018 03 31 to 2018 05 31 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 : 2018 05 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 (%)	σ
Lab020	5	14.2	16.5	5	0.2	1.2	18.6	20	3.2	3.3	3.6	5	0.2	5.6	20.2	20	1.9
Lab021	5	12.3	15.7	5	0.7	4.5	36.6	20	-1.7	2.8	5.6	5	0.1	1.8	103.6	20	-44.4
Lab022	5	14.4	15.0	5	0.3	2.0	8.2	20	>6	3.3	3.4	5	0.1	2.9	8.9	20	5.9
Lab028	5	14.2	15.2	14	0.7	4.6	16.3	20	2.8	3.3	3.7	14	0.1	2.7	17.5	20	2.9
Total	-	-	15.5	29	0.7	4.5	-	-	-	-	4.0	29	0.8	20.0	-	-	-

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 2018 05 31 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 (%)	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	15.5	21	0.7	4.5	18.2	20	2.4	3.3	3.5	21	0.1	2.9	11.8	20	4.8
Lab021	5	12.3	15.5	12	0.5	3.2	32.5	20	-1.9	2.8	4.5	12	1.1	24.4	109.6	20	-1.7
Lab022	5	14.4	15.0	5	0.3	2.0	8.2	20	>6	3.3	3.4	5	0.1	2.9	8.9	20	5.9
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	63	0.8	5.3	16.9	20	2.6	3.3	3.6	63	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	163	0.8	5.3	-	-	-	-	3.6	163	0.5	13.9	-	-	-

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 (2018/05)									CUM (2014/02/01~2018/05/31)						
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
Lab019	5	14.8	-	0	-	-	-	20	-		14.8	14.9	30	0.7	4.7	10.1	20	4.1
Lab020	5	14.2	16.5	5	0.2	1.2	18.6	20	3.2		14.2	15.5	21	0.7	4.5	18.2	20	2.4
Lab021	5	12.3	15.7	5	0.7	4.5	36.6	20	-1.7		12.3	15.5	12	0.5	3.2	32.5	20	-1.9
Lab022	5	14.4	15.0	5	0.3	2.0	8.2	20	>6		14.4	15.0	5	0.3	2.0	8.2	20	>6
Lab026	5	14.6	-	0	-	-	-	36	-		14.6	14.7	16	0.5	3.4	7.5	36	>6
Lab028	5	14.2	15.2	14	0.7	4.6	16.3	20	2.8		14.2	15.1	63	0.8	5.3	16.9	20	2.6
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	-	-	15.5	29	0.7	4.5	-	-	-		-	15.1	163	0.8	5.3	-	-	-

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

Month : 2018 05 Change Cumulative : from 2014 02 01 to 2018 05 31 Change

[TOP]

Control D Month vs. Cumulative

		Control D (Lot No.: AC1203D)															
		Month (2018/05)									CUM (2014/02/01~2018/05/31)						
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
Lab019	5	3.4	-	0	-	-	-	20	-		3.4	3.6	30	0.6	16.7	39.2	20	0.8
Lab020	5	3.3	3.6	5	0.2	5.6	20.2	20	1.9		3.3	3.5	21	0.1	2.9	11.8	20	4.8
Lab021	5	2.8	5.6	5	0.1	1.8	103.6	20	-44.4		2.8	4.5	12	1.1	24.4	109.6	20	-1.7
Lab022	5	3.3	3.4	5	0.1	2.9	8.9	20	5.9		3.3	3.4	5	0.1	2.9	8.9	20	5.9
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	14	0.1	2.7	17.5	20	2.9		3.3	3.6	63	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	-	-	4.0	29	0.8	20.0	-	-	-		-	3.6	163	0.5	13.9	-	-	-

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

Month : 2018 05 Change Cumulative : from 2014 02 01 to 2018 05 31 Change

[TOP]

Reagent Kit	Reagent Code
Medicon	5