

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

Select LotNo : AH1220N (2019-01-28 ~ 2100-12-31) Change

[Print Table](#)

Lab050

QC Control Lot No.	Control N		Control D	
	AH1220N		AH1220D	
Duration of the Analyzing	Month (2023/01)	CUM (2022/09/07~2023/01/27)	Month (2023/01)	CUM (2022/09/07~2023/01/27)
Runs (N)	3	26	3	26
Mean (U/gHb)	14.7	14.5	4.4	4.4
SD	0.6	0.4	0.2	0.1
CV (%)	4.1	2.8	4.5	2.3
Target Value (U/gHb)	13.8	13.8	4.3	4.3
Total Error (%)	14.7	10.6	11.4	6.9
TEa (%)	20	20	20	20
σ	3.3	5.3	3.9	>6

Bias (%) = $(\frac{| \text{Mean} - \text{Target} |}{\text{Target}}) \times 100\%$
 TE : Total Error(%) = Bias (%) + 2 × CV (%)
 σ (Sigma) = $(\text{TEa}\% - \text{Bias}(\%)) / \text{CV}(\%)$

Month : 2023 01 Change ; Cumulative : from 2022 09 07 to 2023 01 27 Change

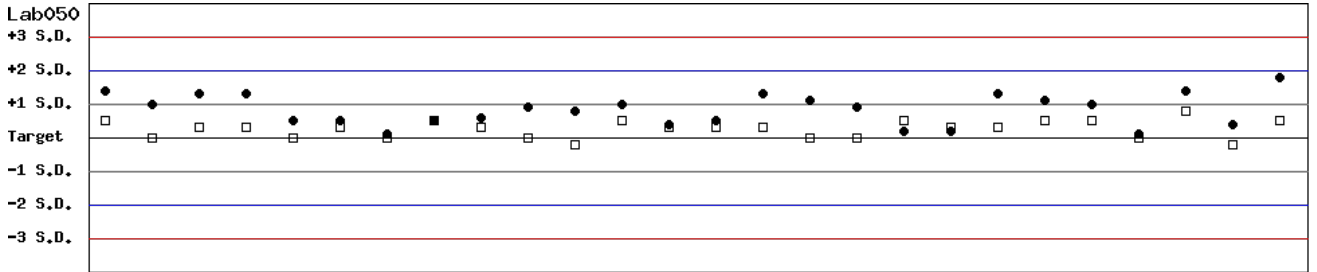
[\[TOP\]](#)

Control N and Control D SDI QC Chart

Lot No.: AH1220N ; Duration : 2022-09-07 to 2023-01-27 ; Target : 13.8 ; SD : 0.8 (●)

Lot No.: AH1220D ; Duration : 2022-09-07 to 2023-01-27 ; Target : 4.3 ; SD : 0.4 (□)

Lab050



Date 09-07 09-15 09-22 09-29 10-03 10-06 10-12 10-17 10-20 10-25 10-28 11-04 11-08 11-10 11-15 11-21 11-24 11-29 12-07 12-12 12-15 12-21 12-28 01-10 01-16 01-26

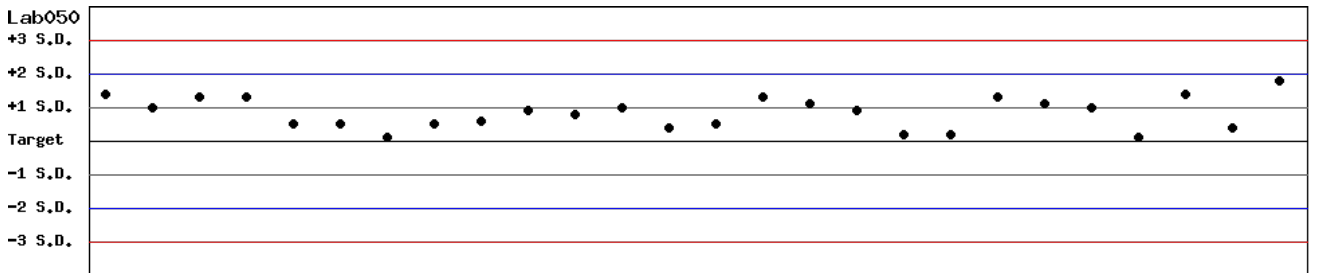
Month : 2023 01 Change ; Cumulative : from 2022 09 07 to 2023 01 27 Change

[\[TOP\]](#)

Control N SDI QC Chart

Lot No.: AH1220N ; Duration : 2022-09-07 to 2023-01-27 ; Target : 13.8 ; SD : 0.8

Lab050



Date 09-07 09-15 09-22 09-29 10-03 10-06 10-12 10-17 10-20 10-25 10-28 11-04 11-08 11-10 11-15 11-21 11-24 11-29 12-07 12-12 12-15 12-21 12-28 01-10 01-16 01-26

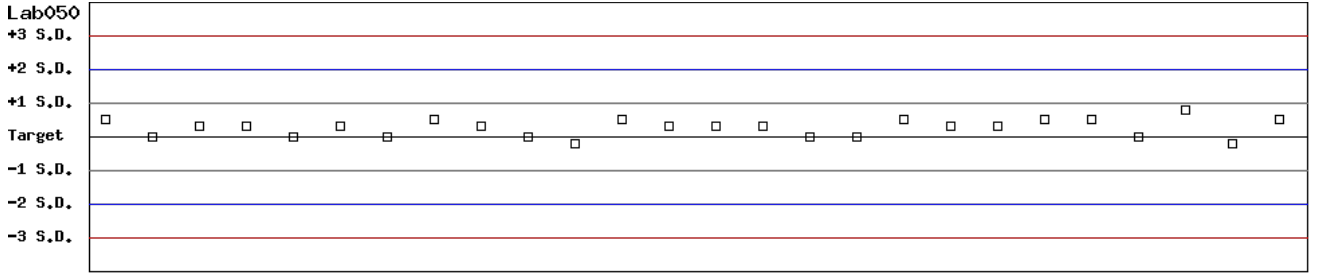
Month : 2023 01 Change ; Cumulative : from 2022 09 07 to 2023 01 27 Change

[\[TOP\]](#)

Control D SDI QC Chart

Lot No.: AH1220D ; Duration : 2022-09-07 to 2023-01-27 ; Target : 4.3 ; SD : 0.4

Lab050



Date 09-07 09-15 09-22 09-29 10-03 10-06 10-12 10-17 10-20 10-25 10-28 11-04 11-08 11-10 11-15 11-21 11-24 11-29 12-07 12-12 12-15 12-21 12-28 01-10 01-16 01-26

Month : ; Cumulative : from to

[TOP](#)

Peer Group Statistics (Table 1)

Select LotNo : AH1220N (2019-01-28 ~ 2100-12-31)

Select Reagent Kit : 5 - Medicon

Monthly

Month : 2023

UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	Control N (Lot No.: AH1220N)								Control D (Lot No.: AH1220D)							
		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
Lab034	5	15.3	14.8	4	0.2	1.4	6.0	20	>6	5.2	4.9	4	0.2	4.1	13.9	20	3.5
Lab050	5	13.8	14.7	3	0.6	4.1	14.7	20	3.3	4.3	4.4	3	0.2	4.5	11.4	20	3.9
Total	-	-	14.8	7	0.4	2.7	-	-	-	-	4.7	7	0.3	6.4	-	-	-

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

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

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

[TOP](#)

Cumulative

Cumulative : from 2019 to 2023

UnitID <input type="button" value="↑"/>	Reagent Kit (Code) <input type="button" value="↑"/>	Control N (Lot No.: AH1220N)								Control D (Lot No.: AH1220D)							
		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	15.0	14.8	67	0.5	3.4	8.1	20	5.5	4.6	4.5	67	0.2	4.4	11.1	20	4.1
Lab020	5	13.3	14.3	65	1.0	7.0	21.5	20	1.8	4.3	4.5	65	0.2	4.4	13.5	20	3.5
Lab022	5	13.8	13.0	88	0.9	6.9	19.6	20	2.1	4.4	4.2	88	0.2	4.8	14.1	20	3.2
Lab028	5	14.6	14.6	53	0.4	2.7	5.5	20	>6	4.6	4.6	53	0.2	4.3	8.7	20	4.7
Lab032	5	12.1	12.9	136	1.4	10.9	28.3	20	1.2	3.5	4.0	136	0.5	12.5	39.3	20	0.5
Lab033	5	12.4	12.5	144	0.4	3.2	7.2	20	6.0	3.9	3.9	144	0.2	5.1	10.3	20	3.9
Lab034	5	15.3	14.3	105	1.0	7.0	20.5	20	1.9	5.2	4.6	105	0.4	8.7	28.9	20	1.0
Lab037	5	15.3	15.2	55	0.4	2.6	5.9	20	>6	5.2	4.7	55	0.2	4.3	18.1	20	2.4
Lab040	5	13.9	14.6	40	0.6	4.1	13.3	20	3.6	4.6	5.0	40	0.4	8.0	24.7	20	1.4
Lab043	5	13.8	12.7	19	0.7	5.5	19.0	20	2.2	4.4	4.1	19	0.3	7.3	21.5	20	1.8
Lab047	5	14.7	13.7	26	1.2	8.8	24.3	20	1.5	4.6	4.3	26	0.3	7.0	20.5	20	1.9
Lab049	5	14.7	14.3	42	0.5	3.5	9.7	20	4.9	4.9	4.7	42	0.3	6.4	16.8	20	2.5
Lab050	5	13.8	14.1	143	0.5	3.5	9.3	20	5.1	4.3	4.4	143	0.1	2.3	6.9	20	>6
Total	-	-	13.8	983	1.2	8.7	-	-	-	-	4.3	983	0.4	9.3	-	-	-

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 : AH1220N (2019-01-28 ~ 2100-12-31) Change

Select Reagent Kit : 5 - Medicon Change

Print Table 2

Control N Month vs. Cumulative

		Control N (Lot No.: AH1220N)															
		Month (2023/01)									CUM (2019/02/01~2023/01/31)						
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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	15.0	-	0	-	-	-	20	-	15.0	14.8	67	0.5	3.4	8.1	20	5.5
Lab020	5	13.3	-	0	-	-	-	20	-	13.3	14.3	65	1.0	7.0	21.5	20	1.8
Lab022	5	13.8	-	0	-	-	-	20	-	13.8	13.0	88	0.9	6.9	19.6	20	2.1
Lab028	5	14.6	-	0	-	-	-	20	-	14.6	14.6	53	0.4	2.7	5.5	20	>6
Lab032	5	12.1	-	0	-	-	-	20	-	12.1	12.9	136	1.4	10.9	28.3	20	1.2
Lab033	5	12.4	-	0	-	-	-	20	-	12.4	12.5	144	0.4	3.2	7.2	20	6.0
Lab034	5	15.3	14.8	4	0.2	1.4	6.0	20	>6	15.3	14.3	105	1.0	7.0	20.5	20	1.9
Lab037	5	15.3	-	0	-	-	-	20	-	15.3	15.2	55	0.4	2.6	5.9	20	>6
Lab040	5	13.9	-	0	-	-	-	20	-	13.9	14.6	40	0.6	4.1	13.3	20	3.6
Lab043	5	13.8	-	0	-	-	-	20	-	13.8	12.7	19	0.7	5.5	19.0	20	2.2
Lab047	5	14.7	-	0	-	-	-	20	-	14.7	13.7	26	1.2	8.8	24.3	20	1.5
Lab049	5	14.7	-	0	-	-	-	20	-	14.7	14.3	42	0.5	3.5	9.7	20	4.9
Lab050	5	13.8	14.7	3	0.6	4.1	14.7	20	3.3	13.8	14.1	143	0.5	3.5	9.3	20	5.1
Total	-	-	14.8	7	0.4	2.7	-	-	-	-	13.8	983	1.2	8.7	-	-	-

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

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

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

Month : 2023 01 Change

Cumulative : from 2019 02 01 to 2023 01 31 Change

[TOP](#)

Control D Month vs. Cumulative

		Control D (Lot No.: AH1220D)															
		Month (2023/01)									CUM (2019/02/01~2023/01/31)						
UnitID <small>↑</small>	Reagent Kit (Code) <small>↑</small>	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	4.6	-	0	-	-	-	20	-	4.6	4.5	67	0.2	4.4	11.1	20	4.1
Lab020	5	4.3	-	0	-	-	-	20	-	4.3	4.5	65	0.2	4.4	13.5	20	3.5
Lab022	5	4.4	-	0	-	-	-	20	-	4.4	4.2	88	0.2	4.8	14.1	20	3.2
Lab028	5	4.6	-	0	-	-	-	20	-	4.6	4.6	53	0.2	4.3	8.7	20	4.7
Lab032	5	3.5	-	0	-	-	-	20	-	3.5	4.0	136	0.5	12.5	39.3	20	0.5
Lab033	5	3.9	-	0	-	-	-	20	-	3.9	3.9	144	0.2	5.1	10.3	20	3.9
Lab034	5	5.2	4.9	4	0.2	4.1	13.9	20	3.5	5.2	4.6	105	0.4	8.7	28.9	20	1.0
Lab037	5	5.2	-	0	-	-	-	20	-	5.2	4.7	55	0.2	4.3	18.1	20	2.4
Lab040	5	4.6	-	0	-	-	-	20	-	4.6	5.0	40	0.4	8.0	24.7	20	1.4
Lab043	5	4.4	-	0	-	-	-	20	-	4.4	4.1	19	0.3	7.3	21.5	20	1.8
Lab047	5	4.6	-	0	-	-	-	20	-	4.6	4.3	26	0.3	7.0	20.5	20	1.9
Lab049	5	4.9	-	0	-	-	-	20	-	4.9	4.7	42	0.3	6.4	16.8	20	2.5
Lab050	5	4.3	4.4	3	0.2	4.5	11.4	20	3.9	4.3	4.4	143	0.1	2.3	6.9	20	>6
Total	-	-	4.7	7	0.3	6.4	-	-	-	-	4.3	983	0.4	9.3	-	-	-

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

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

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

Month : 2023 01 Change

Cumulative : from 2019 02 01 to 2023 01 31 Change

[TOP](#)

Reagent Kit	Reagent Code
Medicon	5