

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

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

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## Lab022

QC Control Lot No.	Control N		Control D	
	AH1220N		AH1220D	
Duration of the Analyzing	Month (2019/12)	CUM (2019/07/01~2019/12/31)	Month (2019/12)	CUM (2019/07/01~2019/12/31)
Runs (N)	4	26	4	26
Mean (U/gHb)	12.5	12.4	4.0	4.0
SD	0.2	0.3	0.0	0.1
CV (%)	1.6	2.4	0.0	2.5
Target Value (U/gHb)	12.4	12.4	4.1	4.1
Total Error (%)	4.0	4.8	2.4	7.4
TEa (%)	20	20	20	20
$\sigma$	>6	>6	>6	>6

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

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

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

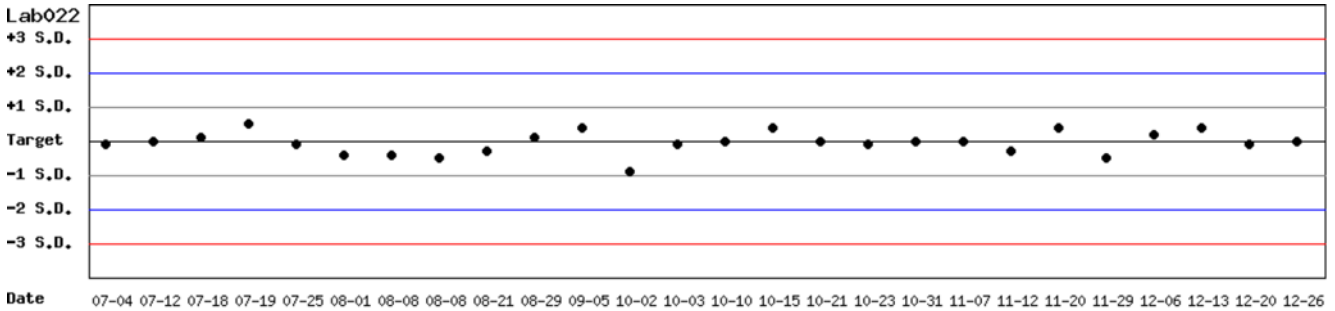
Month : 2019 12 [Change](#) ; Cumulative : from 2019 07 01 to 2019 12 31 [Change](#)

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## Control N SDI QC Chart

Lot No.: AH1220N ; Duration : 2019-07-01 to 2019-12-31 ; Target : 12.4 ; SD : 0.8

Lab022



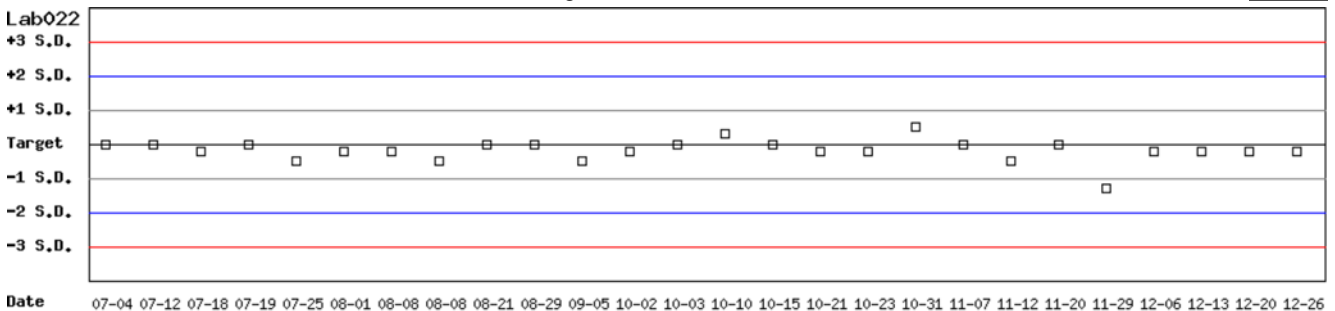
Month : 2019 12 [Change](#) ; Cumulative : from 2019 07 01 to 2019 12 31 [Change](#)

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## Control D SDI QC Chart

Lot No.: AH1220D ; Duration : 2019-07-01 to 2019-12-31 ; Target : 4.1 ; SD : 0.4

Lab022



Month : 2019 12 [Change](#) ; Cumulative : from 2019 07 01 to 2019 12 31 [Change](#)

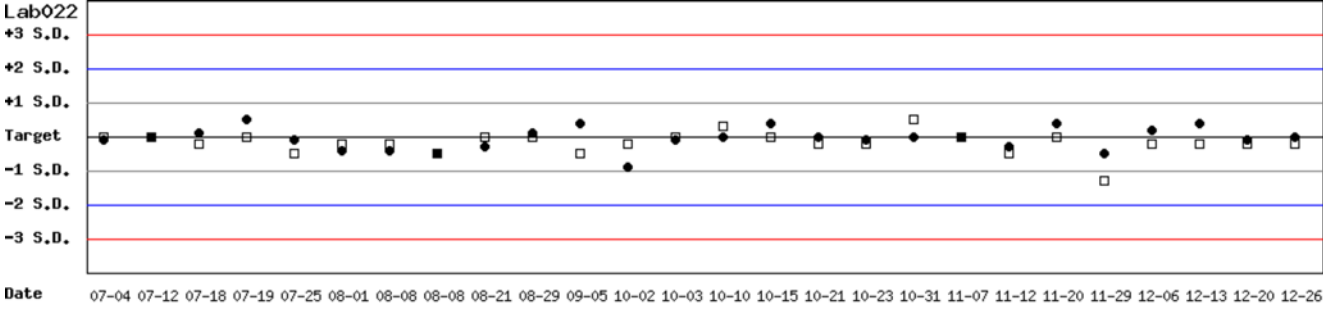
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## Control N and Control D SDI QC Chart

Lot No.: AH1220N ; Duration : 2019-07-01 to 2019-12-31 ; Target : 12.4 ; SD : 0.8 (●)

Lot No.: AH1220D ; Duration : 2019-07-01 to 2019-12-31 ; Target : 4.1 ; SD : 0.4 (□)

Lab022



Month : 2019 | 12 |  ; Cumulative : from 2019 | 07 | 01 to 2019 | 12 | 31 |

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# Peer Group Statistics (Table 1)

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

Select Reagent Kit : 5 - Medicon

## Monthly

Month : 2019  12

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
<a href="#">Lab022</a>	5	12.4	12.5	4	0.2	1.6	4.0	20	>6	4.1	4.0	4	0.0	0.0	2.4	20	>6
<a href="#">Lab032</a>	5	15.3	14.2	8	0.3	2.1	11.4	20	>6	5.2	4.3	8	0.1	2.3	22.0	20	1.2
<a href="#">Lab033</a>	5	12.4	12.2	4	0.3	2.5	6.5	20	>6	3.9	3.9	4	0.2	5.1	10.3	20	3.9
<a href="#">Lab037</a>	5	15.3	15.3	4	0.2	1.3	2.6	20	>6	5.2	4.8	4	0.1	2.1	11.9	20	5.9
Total	-	-	13.7	20	1.2	8.8	-	-	-	-	4.2	20	0.4	9.5	-	-	-

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

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

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

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## Cumulative

Cumulative : from 2019  02  01  to 2019  12  31

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
<a href="#">Lab020</a>	5	15.9	15.3	16	0.6	3.9	11.6	20	4.2	5.2	4.7	16	0.2	4.3	18.1	20	2.4
<a href="#">Lab022</a>	5	12.4	12.4	33	0.3	2.4	4.8	20	>6	4.1	4.0	33	0.1	2.5	7.4	20	>6
<a href="#">Lab032</a>	5	15.3	14.4	37	0.5	3.5	12.8	20	4.0	5.2	4.5	37	0.5	11.1	35.7	20	0.6
<a href="#">Lab033</a>	5	12.4	12.5	38	0.4	3.2	7.2	20	6.0	3.9	3.8	38	0.1	2.6	7.8	20	>6
<a href="#">Lab037</a>	5	15.3	15.3	4	0.2	1.3	2.6	20	>6	5.2	4.8	4	0.1	2.1	11.9	20	5.9
Total	-	-	13.5	128	1.2	8.9	-	-	-	-	4.2	128	0.5	11.9	-	-	-

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 : 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 (2019/12)									CUM (2019/02/01~2019/12/31)						
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="#">Lab020</a>	5	15.9	-	0	-	-	-	20	-	15.9	15.3	16	0.6	3.9	11.6	20	4.2
<a href="#">Lab022</a>	5	12.4	12.5	4	0.2	1.6	4.0	20	>6	12.4	12.4	33	0.3	2.4	4.8	20	>6
<a href="#">Lab032</a>	5	15.3	14.2	8	0.3	2.1	11.4	20	>6	15.3	14.4	37	0.5	3.5	12.8	20	4.0
<a href="#">Lab033</a>	5	12.4	12.2	4	0.3	2.5	6.5	20	>6	12.4	12.5	38	0.4	3.2	7.2	20	6.0
<a href="#">Lab037</a>	5	15.3	15.3	4	0.2	1.3	2.6	20	>6	15.3	15.3	4	0.2	1.3	2.6	20	>6
<b>Total</b>	-	-	13.7	20	1.2	8.8	-	-	-	-	13.5	128	1.2	8.9	-	-	-

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

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

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

Month : 2019 12 Change Cumulative : from 2019 02 01 to 2019 12 31 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AH1220D)															
		Month (2019/12)									CUM (2019/02/01~2019/12/31)						
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="#">Lab020</a>	5	5.2	-	0	-	-	-	20	-	5.2	4.7	16	0.2	4.3	18.1	20	2.4
<a href="#">Lab022</a>	5	4.1	4.0	4	0.0	0.0	2.4	20	>6	4.1	4.0	33	0.1	2.5	7.4	20	>6
<a href="#">Lab032</a>	5	5.2	4.3	8	0.1	2.3	22.0	20	1.2	5.2	4.5	37	0.5	11.1	35.7	20	0.6
<a href="#">Lab033</a>	5	3.9	3.9	4	0.2	5.1	10.3	20	3.9	3.9	3.8	38	0.1	2.6	7.8	20	>6
<a href="#">Lab037</a>	5	5.2	4.8	4	0.1	2.1	11.9	20	5.9	5.2	4.8	4	0.1	2.1	11.9	20	5.9
<b>Total</b>	-	-	4.2	20	0.4	9.5	-	-	-	-	4.2	128	0.5	11.9	-	-	-

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

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

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

Month : 2019 12 Change Cumulative : from 2019 02 01 to 2019 12 31 Change

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Reagent Kit	Reagent Code
Medicon	5