

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

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

Print Table

## Lab032

	Control N		Control D	
QC Control Lot No.	AH1220N		AH1220D	
Duration of the Analyzing	Month (2020/04)	CUM (2019/12/26~2020/04/30)	Month (2020/04)	CUM (2019/12/26~2020/04/30)
Runs (N)	3	26	3	26
Mean (U/gHb)	14.3	14.1	4.7	4.4
SD	1.1	0.4	0.2	0.2
CV (%)	7.7	2.8	4.3	4.5
Target Value (U/gHb)	15.3	15.3	5.2	5.2
Total Error (%)	21.9	13.5	18.1	24.5
TEa (%)	20	20	20	20
$\sigma$	1.7	4.3	2.4	1.0

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

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

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

Month : 2020 04 Change ; Cumulative : from 2019 12 26 to 2020 04 30 Change

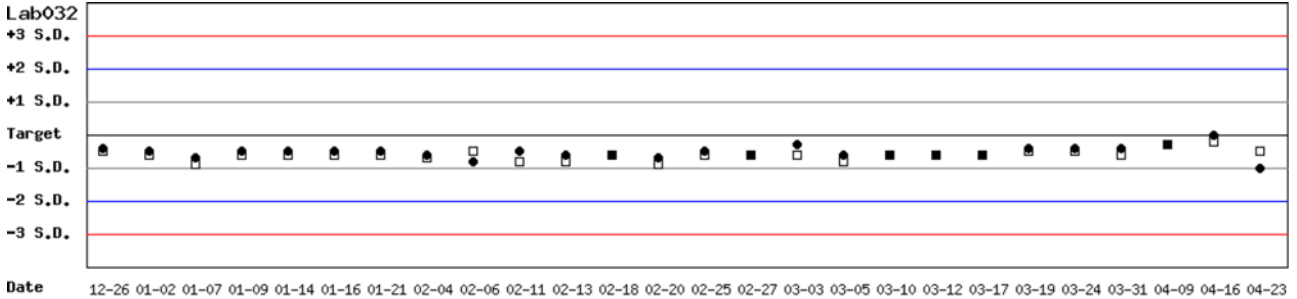
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## Control N and Control D SDI QC Chart

Lot No.: AH1220N ; Duration : 2019-12-26 to 2020-04-30 ; Target : 15.3 ; SD : 2.20 ( ● )

Lot No.: AH1220D ; Duration : 2019-12-26 to 2020-04-30 ; Target : 5.2 ; SD : 1.40 ( □ )

Lab032



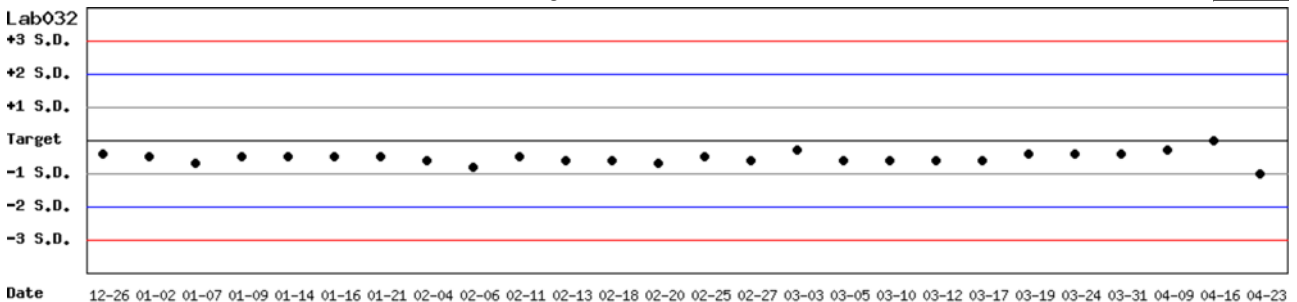
Month : 2020 04 Change ; Cumulative : from 2019 12 26 to 2020 04 30 Change

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## Control N SDI QC Chart

Lot No.: AH1220N ; Duration : 2019-12-26 to 2020-04-30 ; Target : 15.3 ; SD : 2.20

Lab032



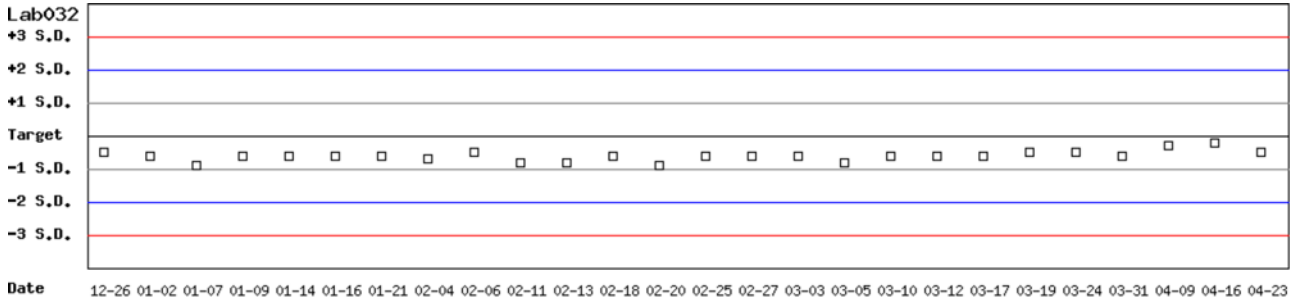
Month : 2020 04 Change ; Cumulative : from 2019 12 26 to 2020 04 30 Change

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## Control D SDI QC Chart

Lot No.: AH1220D ; Duration : 2019-12-26 to 2020-04-30 ; Target : 5.2 ; SD : 1.40

Lab032



Month : 2020 04 Change ; Cumulative : from 2019 12 26 to 2020 04 30 Change

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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 : 2020  04

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="#">Lab032</a>	5	15.3	14.3	3	1.1	7.7	21.9	20	1.7	5.2	4.7	3	0.2	4.3	18.1	20	2.4
<a href="#">Lab033</a>	5	12.4	12.9	1	-	-	-	20	-	3.9	4.1	1	-	-	-	20	-
Total	-	-	14.0	4	1.1	7.9	-	-	-	-	4.6	4	0.4	8.7	-	-	-

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 2020  04  30

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	12.3	41	0.4	3.3	7.3	20	5.8	4.1	4.0	41	0.1	2.5	7.4	20	>6
<a href="#">Lab032</a>	5	15.3	14.3	62	0.5	3.5	13.5	20	3.8	5.2	4.5	62	0.4	8.9	31.2	20	0.7
<a href="#">Lab033</a>	5	12.4	12.5	53	0.4	3.2	7.2	20	6.0	3.9	3.9	53	0.1	2.6	5.1	20	>6
<a href="#">Lab037</a>	5	15.3	15.3	13	0.4	2.6	5.2	20	>6	5.2	4.7	13	0.1	2.1	13.9	20	4.9
Total	-	-	13.5	185	1.2	8.9	-	-	-	-	4.2	185	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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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 (2020/04)								CUM (2019/02/01~2020/04/30)							
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
<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	-	0	-	-	-	20	-	12.4	12.3	41	0.4	3.3	7.3	20	5.8
<a href="#">Lab032</a>	5	15.3	14.3	3	1.1	7.7	21.9	20	1.7	15.3	14.3	62	0.5	3.5	13.5	20	3.8
<a href="#">Lab033</a>	5	12.4	12.9	1	-	-	-	20	-	12.4	12.5	53	0.4	3.2	7.2	20	6.0
<a href="#">Lab037</a>	5	15.3	-	0	-	-	-	20	-	15.3	15.3	13	0.4	2.6	5.2	20	>6
<b>Total</b>	-	-	14.0	4	1.1	7.9	-	-	-	-	13.5	185	1.2	8.9	-	-	-

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

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

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

Month : 2020 04 Change Cumulative : from 2019 02 01 to 2020 04 30 Change

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### Control D Month vs. Cumulative

		Control D (Lot No.: AH1220D)															
		Month (2020/04)								CUM (2019/02/01~2020/04/30)							
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
<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	-	0	-	-	-	20	-	4.1	4.0	41	0.1	2.5	7.4	20	>6
<a href="#">Lab032</a>	5	5.2	4.7	3	0.2	4.3	18.1	20	2.4	5.2	4.5	62	0.4	8.9	31.2	20	0.7
<a href="#">Lab033</a>	5	3.9	4.1	1	-	-	-	20	-	3.9	3.9	53	0.1	2.6	5.1	20	>6
<a href="#">Lab037</a>	5	5.2	-	0	-	-	-	20	-	5.2	4.7	13	0.1	2.1	13.9	20	4.9
<b>Total</b>	-	-	4.6	4	0.4	8.7	-	-	-	-	4.2	185	0.4	9.5	-	-	-

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

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

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

Month : 2020 04 Change Cumulative : from 2019 02 01 to 2020 04 30 Change

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Reagent Kit	Reagent Code
Medicon	5