

Analyte	Instrument	Result Value	Standard Unit	Z-Score
! Bilirubin Direct	Erba Chem 5/Plus	0.19	mg/dl	2.59
! Calcium	Erba Chem 5/Plus	6.25	mg/dl	-2.32
! Uric Acid	Erba Chem 5/Plus	4.09	mg/dl	-2.01
Legend @ : z score $\leq$ 2.0 - Acceptable ! : 2.0 < z score < 3.0 - Warning X : z score $\geq$ 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

**Problem Classification:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Corrective Action:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Reviewed by:** \_\_\_\_\_

**Dated:** \_\_\_\_\_

**SADBHAVANA PATHOLOGY LAB (446)**

**Outlier And Analyte Summary Report**

**Result Details For Cycle No 210207 and Sample No 01**

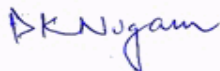
**Report Date : 19/07/2021**

**Instrument : Erba Chem 5/Plus**

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
@ Bilirubin Total	mg/dl	0.28	--	1.19	0.74
! Bilirubin Direct	mg/dl	0.19	--	2.59	2.48
! Calcium	mg/dl	6.25	8.50	-2.32	-1.88
! Uric Acid	mg/dl	4.09	--	-2.01	-1.25
@ Triglycerides	mg/dl	117.90	--	-1.91	-2.46
@ ALT	U/L	20.33	--	-0.08	0.79

Legend @ : z score  $\leq$  2.0 - Acceptable  
! : 2.0 < z score < 3.0 - Warning  
X : z score  $\geq$  3 - Unacceptable  
# : Not Evaluated  
🕒 : Delayed Result Entry  
\* : Not considered for evaluation.

Total Parameters	6
Not Evaluated Parameters	0
Evaluated Parameters	6
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %



**Dr Puneet Kumar Nigam**

**PT coordinator & Technical Manager, MHL EQAS**

Unit No. 409-416.

Commercial Building - 1A,

Kohinoor Mall, Kiroli Road, Kurla (W),

Mumbai - 400070

End of Report

Analyte	Instrument	Result Value	Standard Unit	Z-Score
! Bilirubin Total	Erba Chem 5/Plus	0.34	mg/dl	2.16
X Bilirubin Direct	Erba Chem 5/Plus	0.23	mg/dl	3.51
! Calcium	Erba Chem 5/Plus	6.12	mg/dl	-2.86
! Triglycerides	Erba Chem 5/Plus	111.10	mg/dl	-2.18
Legend @ : z score ≤ 2.0 - Acceptable ! : 2.0 < z score < 3.0 - Warning X : z score ≥ 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

**Problem Classification:** \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

**Corrective Action:** \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

**Reviewed by:** \_\_\_\_\_

**Dated:** \_\_\_\_\_

**SADBHAVANA PATHOLOGY LAB (446)**

**Outlier And Analyte Summary Report**

**Result Details For Cycle No 210207 and Sample No 02**

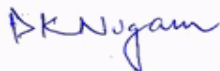
**Report Date : 19/07/2021**

**Instrument : Erba Chem 5/Plus**

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
! Bilirubin Total	mg/dl	0.34	--	2.16	0.74
X Bilirubin Direct	mg/dl	0.23	--	3.51	2.48
! Calcium	mg/dl	6.12	8.70	-2.86	-1.88
@ Uric Acid	mg/dl	3.83	--	-1.73	-1.25
! Triglycerides	mg/dl	111.10	--	-2.18	-2.46
@ ALT	U/L	16.80	--	-0.92	0.79

Legend @ : z score  $\leq$  2.0 - Acceptable  
! : 2.0 < z score < 3.0 - Warning  
X : z score  $\geq$  3 - Unacceptable  
# : Not Evaluated  
🕒 : Delayed Result Entry  
\* : Not considered for evaluation.

Total Parameters	6
Not Evaluated Parameters	0
Evaluated Parameters	6
Outlier Parameters (X)	1
EQAS Score Biochemistry	83.33 %



**Dr Puneet Kumar Nigam**  
**PT coordinator & Technical Manager, MHL EQAS**  
Unit No. 409-416.  
Commercial Building - 1A,  
Kohinoor Mall, Kiroli Road, Kurla (W),  
Mumbai - 400070

End of Report

Analyte	Instrument	Result Value	Standard Unit	Z-Score
! Glucose	Erba Chem 5/Plus	52.03	mg/dl	-2.32
X Urea	Erba Chem 5/Plus	32.24	mg/dl	3.37
! Creatinine	Erba Chem 5/Plus	1.33	mg/dl	2.49
! Cholesterol	Erba Chem 5/Plus	125.20	mg/dl	-2.90

Legend @ : z score ≤ 2.0 - Acceptable  
! : 2.0 < z score < 3.0 - Warning  
X : z score ≥ 3 - Unacceptable  
# : Not Evaluated  
🕒 : Delayed Result Entry  
\* : Not considered for evaluation.

**Problem Classification:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Corrective Action:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Reviewed by:** \_\_\_\_\_

**Dated:** \_\_\_\_\_

**SADBHAVANA PATHOLOGY LAB (446)**

**Outlier And Analyte Summary Report**

**Result Details For Cycle No 210207 and Sample No 03**

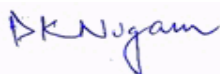
**Report Date : 19/07/2021**

**Instrument : Erba Chem 5/Plus**

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
! Glucose	mg/dl	52.03	--	-2.32	-0.68
X Urea	mg/dl	32.24	--	3.37	2.87
! Creatinine	mg/dl	1.33	--	2.49	1.43
! Cholesterol	mg/dl	125.20	--	-2.90	-1.81

Legend @ : z score ≤ 2.0 - Acceptable  
 ! : 2.0 < z score < 3.0 - Warning  
 X : z score ≥ 3 - Unacceptable  
 # : Not Evaluated  
 ⌚ : Delayed Result Entry  
 \* : Not considered for evaluation.

Total Parameters	4
Not Evaluated Parameters	0
Evaluated Parameters	4
Outlier Parameters (X)	1
EQAS Score Biochemistry	75.00 %



**Dr Puneet Kumar Nigam**  
**PT coordinator & Technical Manager, MHL EQAS**  
 Unit No. 409-416,  
 Commercial Building - 1A,  
 Kohinoor Mall, Kiroi Road, Kurla (W),  
 Mumbai - 400070

End of Report

Analyte	Instrument	Result Value	Standard Unit	Z-Score
X Urea	Erba Chem 5/Plus	29.61	mg/dl	3.89
! Cholesterol	Erba Chem 5/Plus	122.30	mg/dl	-2.41
! Glucose	Erba Chem 5/Plus	57.73	mg/dl	-2.21
Legend @ : z score $\leq$ 2.0 - Acceptable ! : 2.0 < z score < 3.0 - Warning X : z score $\geq$ 3 - Unacceptable # : Not Evaluated ⌚ : Delayed Result Entry * : Not considered for evaluation.				

**Problem Classification:** \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

**Corrective Action:** \_\_\_\_\_

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**Reviewed by:** \_\_\_\_\_

**Dated:** \_\_\_\_\_

**SADBHAVANA PATHOLOGY LAB (446)**

**Outlier And Analyte Summary Report**

**Result Details For Cycle No 210207 and Sample No 04**

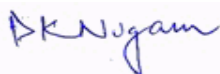
**Report Date : 19/07/2021**

**Instrument : Erba Chem 5/Plus**

Analyte	StandardUnit	Result Value	Mean	Z-Score	RMZ
X Urea	mg/dl	29.61	--	3.89	2.87
! Cholesterol	mg/dl	122.30	--	-2.41	-1.81
! Glucose	mg/dl	57.73	--	-2.21	-0.68
@ Creatinine	mg/dl	1.15	--	1.56	1.43

Legend @ : z score ≤ 2.0 - Acceptable  
 ! : 2.0 < z score < 3.0 - Warning  
 X : z score ≥ 3 - Unacceptable  
 # : Not Evaluated  
 ⌚ : Delayed Result Entry  
 \* : Not considered for evaluation.

Total Parameters	4
Not Evaluated Parameters	0
Evaluated Parameters	4
Outlier Parameters (X)	1
EQAS Score Biochemistry	75.00 %



**Dr Puneet Kumar Nigam**  
**PT coordinator & Technical Manager, MHL EQAS**  
 Unit No. 409-416,  
 Commercial Building - 1A,  
 Kohinoor Mall, Kiroli Road, Kurla (W),  
 Mumbai - 400070

End of Report



**Analyte Methodwise Result Report**

Lab : 446  
Lab Name : SADBHAVANA PATHOLOGY LAB  
Report Date : 19/07/2021

Cycle No : 210207  
Sample No : 2  
Sample Date : 02-07-2021

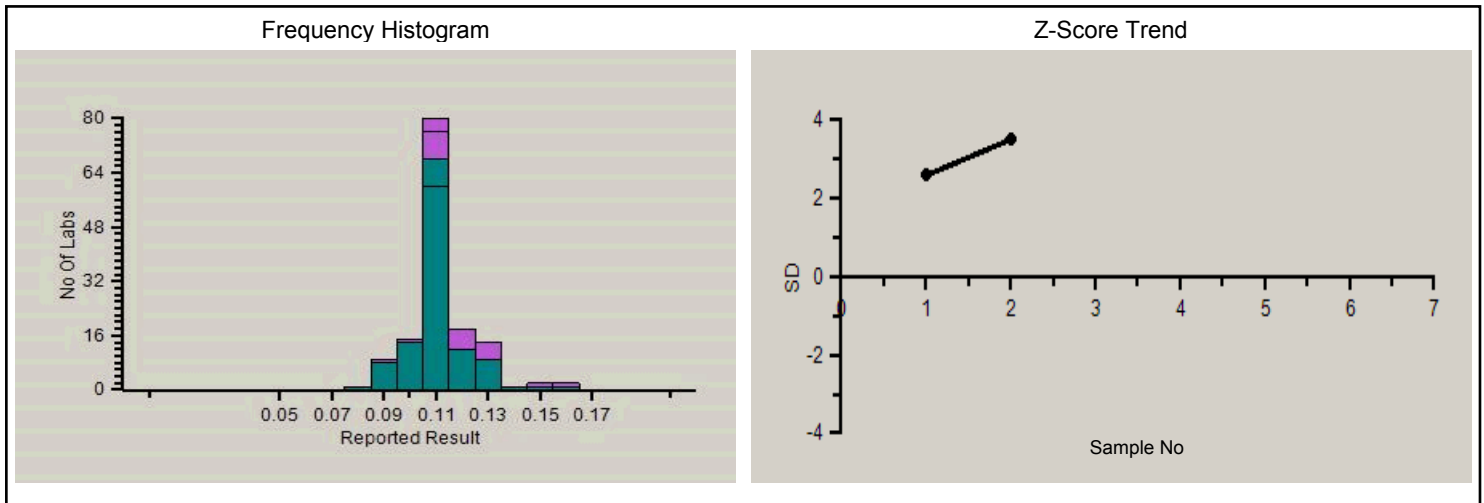
**Biochemistry, Bilirubin Direct, mg/dl**

	N	Mean	SD	CV%	Excluded
All Methods	228	0.11	0.02	17.76	83
Diazotization	174	0.11	0.02	18.10	56
Erba Chem 5/Plus	1	--	--	--	1

<b>Your Result</b>	0.23	<b>SDI / z-Score</b>	3.51
<b>Assigned Value</b>	0.11	<b>Average SDI</b>	3.05
<b>SDPA</b>	0.035	<b>Uncertainty of AV</b>	0.01
<b>Standard Unit Result Val</b>	0.23	<b>%DEV</b>	119.05

Note : # - Not evaluated / Bimodal distribution

X : SDI more than 4



Note : SDI with \* marked are not considered for evaluation.

**Comments :**

Remarks: Interpretation of your reports

- If your SDI lies between +/- 2.0 SD then your results are well within limits.
- If your SDI lies between +/-2.0 to 2.99 SD then it is a warning alert flag.
- If your SDI is +/- 3.0 SD or more then it is an action alert flag.



PC-1022

**Analyte Methodwise Result Report**

Lab : 446  
 Lab Name : SADBHAVANA PATHOLOGY LAB  
 Report Date : 19/07/2021

Cycle No : 210207  
 Sample No : 2  
 Sample Date : 02-07-2021

<b>Biochemistry, Bilirubin Direct</b>		<b>N</b>	<b>Mean</b>	<b>SD</b>	<b>CV%</b>	<b>Excluded</b>
	All Analyzer	228	0.11	0.02	17.76	83
<b>Your Analyzer :</b>	<b>Erba Chem 5/Plus</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>
	Fuji Dri-Chem NX500/i	36	0.10	0.01	9.80	13
	Fuji Dri-Chem NX500/i	35	0.10	0.01	6.00	13
	Roche cobas c 311	26	0.10	0.01	14.14	6
	Biosystems A15	21	0.15	0.04	24.67	14
	Biosystems A15	21	0.15	0.04	24.67	14
	Erba EM 200	19	0.11	0.02	17.76	10
	Erba EM 200	19	0.11	0.02	17.76	10
	ERBA XL-640	17	0.11	0.01	10.71	4

Remarks: Interpretation of your reports

- a) If your SDI lies between +/- 2.0 SD then your results are well within limits.
- b) If your SDI lies between +/-2.0 to 2.99 SD then it is a warning alert flag.
- c) If your SDI is +/- 3.0 SD or more then it is an action alert flag.

*Dr Puneet Kumar Nigam*

**Dr Puneet Kumar Nigam**  
**PT coordinator & Technical Manager, MHL EQAS**  
 Unit No. 409-416.  
 Commercial Building - 1A,  
 Kohinoor Mall, Kirool Road, Kuria (W),  
 Mumbai - 400070



PC-1022

**Analyte Methodwise Result Report**

Lab : 446  
 Lab Name : SADBHAVANA PATHOLOGY LAB  
 Report Date : 19/07/2021

Cycle No : 210207  
 Sample No : 3  
 Sample Date : 02-07-2021

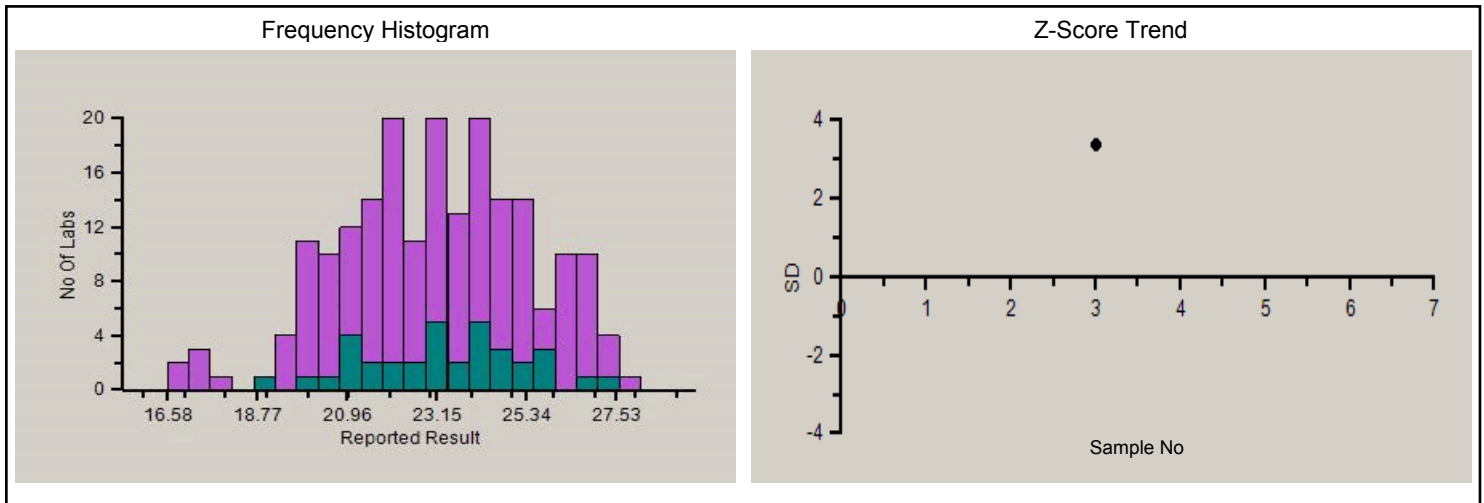
**Biochemistry, Urea, mg/dl**

	N	Mean	SD	CV%	Excluded
All Methods	234	23.14	2.18	9.40	14
Urease, GLDH	40	23.34	1.99	8.54	5
Erba Chem 5/Plus	1	--	--	--	1

<b>Your Result</b>	32.24	<b>SDI / z-Score</b>	3.37
<b>Assigned Value</b>	23.47	<b>Average SDI</b>	3.63
<b>SDPA</b>	2.603	<b>Uncertainty of AV</b>	0.53
<b>Standard Unit Result Val</b>	32.24	<b>%DEV</b>	38.11

Note : # - Not evaluated / Bimodal distribution

X : SDI more than 4



Note : SDI with \* marked are not considered for evaluation.

**Comments :**

Remarks: Interpretation of your reports

- If your SDI lies between +/- 2.0 SD then your results are well within limits.
- If your SDI lies between +/-2.0 to 2.99 SD then it is a warning alert flag.
- If your SDI is +/- 3.0 SD or more then it is an action alert flag.



**Analyte Methodwise Result Report**

Lab : 446  
 Lab Name : SADBHAVANA PATHOLOGY LAB  
 Report Date : 19/07/2021

Cycle No : 210207  
 Sample No : 3  
 Sample Date : 02-07-2021

Biochemistry, Urea		N	Mean	SD	CV%	Excluded
	All Analyzer	234	23.14	2.18	9.40	14
<b>Your Analyzer :</b>	<b>Erba Chem 5/Plus</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>
	Fuji Dri-Chem NX500/i	37	23.21	2.48	10.70	4
	Fuji Dri-Chem NX500/i	36	23.10	2.44	10.58	4
	Roche cobas c 311	29	23.75	1.25	5.25	--
	Biosystems A15	24	22.96	2.30	10.00	1
	Biosystems A15	23	22.87	2.31	10.08	1
	Biosystems A15	22	22.68	2.17	9.57	1
	Biosystems A15	22	22.68	2.17	9.57	1
	Erba EM 200	17	22.67	2.95	12.99	--

Remarks: Interpretation of your reports

- a) If your SDI lies between +/- 2.0 SD then your results are well within limits.
- b) If your SDI lies between +/-2.0 to 2.99 SD then it is a warning alert flag.
- c) If your SDI is +/- 3.0 SD or more then it is an action alert flag.

*Dr Puneet Kumar Nigam*

**Dr Puneet Kumar Nigam**  
**PT coordinator & Technical Manager, MHL EQAS**  
 Unit No. 409-416.  
 Commercial Building - 1A,  
 Kohinoor Mall, Kirool Road, Kuria (W),  
 Mumbai - 400070



PC-1022

**Analyte Methodwise Result Report**

Lab : 446  
 Lab Name : SADBHAVANA PATHOLOGY LAB  
 Report Date : 19/07/2021

Cycle No : 210207  
 Sample No : 4  
 Sample Date : 02-07-2021

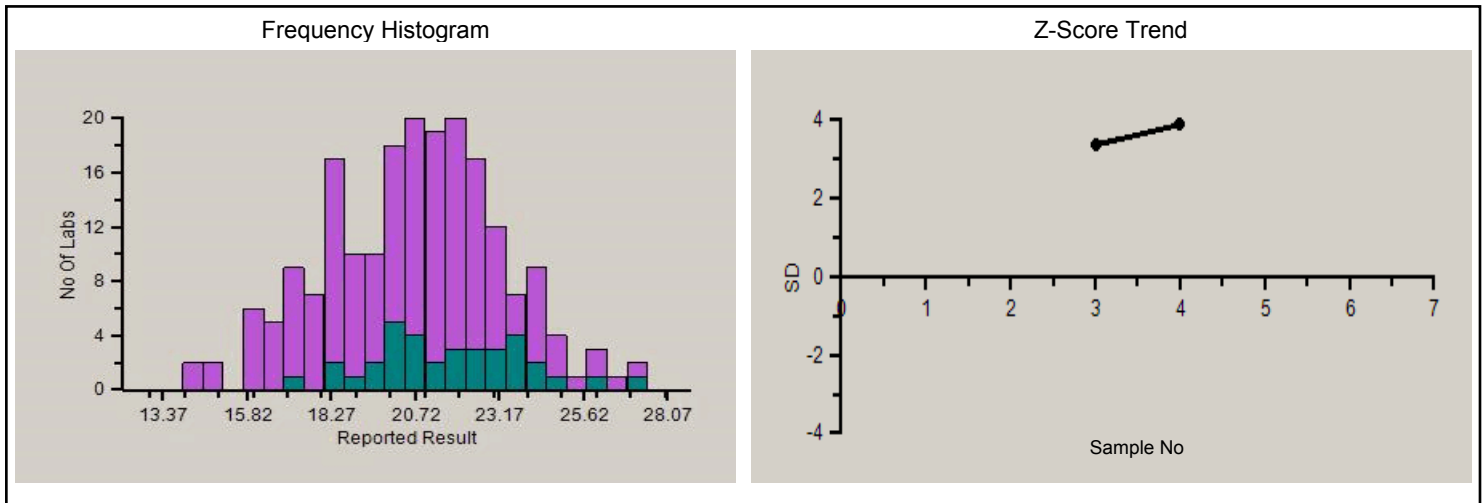
**Biochemistry, Urea, mg/dl**

	N	Mean	SD	CV%	Excluded
All Methods	229	20.67	2.45	11.83	17
Urease, GLDH	38	21.78	2.23	10.26	3
Erba Chem 5/Plus	1	--	--	--	1

<b>Your Result</b>	29.61	<b>SDI / z-Score</b>	3.89
<b>Assigned Value</b>	21.88	<b>Average SDI</b>	3.63
<b>SDPA</b>	1.988	<b>Uncertainty of AV</b>	0.41
<b>Standard Unit Result Val</b>	29.61	<b>%DEV</b>	35.93

Note : # - Not evaluated / Bimodal distribution

X : SDI more than 4



Note : SDI with \* marked are not considered for evaluation.

**Comments :**

Remarks: Interpretation of your reports

- If your SDI lies between +/- 2.0 SD then your results are well within limits.
- If your SDI lies between +/-2.0 to 2.99 SD then it is a warning alert flag.
- If your SDI is +/- 3.0 SD or more then it is an action alert flag.



**Analyte Methodwise Result Report**

Lab : 446  
 Lab Name : SADBHAVANA PATHOLOGY LAB  
 Report Date : 19/07/2021

Cycle No : 210207  
 Sample No : 4  
 Sample Date : 02-07-2021

Biochemistry, Urea		N	Mean	SD	CV%	Excluded
	All Analyzer	229	20.67	2.45	11.83	17
<b>Your Analyzer :</b>	<b>Erba Chem 5/Plus</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>
	Fuji Dri-Chem NX500/i	36	18.07	1.72	9.54	4
	Fuji Dri-Chem NX500/i	35	17.99	1.69	9.40	4
	Roche cobas c 311	28	21.53	1.04	4.84	--
	Biosystems A15	24	21.35	2.14	10.00	1
	Biosystems A15	23	21.27	2.15	10.12	1
	Biosystems A15	22	21.04	1.89	8.97	1
	Biosystems A15	22	21.04	1.89	8.97	1
	ERBA XL-640	17	22.10	1.34	6.05	--

Remarks: Interpretation of your reports

- a) If your SDI lies between +/- 2.0 SD then your results are well within limits.
- b) If your SDI lies between +/-2.0 to 2.99 SD then it is a warning alert flag.
- c) If your SDI is +/- 3.0 SD or more then it is an action alert flag.

*Dr Puneet Kumar Nigam*

**Dr Puneet Kumar Nigam**  
**PT coordinator & Technical Manager, MHL EQAS**  
 Unit No. 409-416.  
 Commercial Building - 1A,  
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 Mumbai - 400070



PC-1022

**SADBHAVANA PATHOLOGY LAB**

SPL - 07

Proficiency Testing outliers and corrective action records

PAGE 1 OF 1

Sr. No	Date	Test Name	Lab Reported Result	Peer / Expected Value	Details of Root Cause analysis and Corrective action taken	Done by	Sign
1.	22/7/21	Billi Direct	0.23	0.11	1) IQC Data Reviewed: IQC Data on the day of EQAS is Satisfactory	Sanket	
2.							
3.					2) Environmental Factors: No major change in the environmental factors		
4.							
5.					Root Cause; No Significant & Random error monitor for next cycle.		
6.							
7.							

Issue No. 1	Issue Date : 16-04-2020	Amend No. 00	Amend Date. 00	Page 1 of 1
Prepared By : Mr. Prasad Ghadage		Reviewed and Approved By Mr. Sanket Rode		

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## SADBHAVANA PATHOLOGY LAB


SPL - 07

Proficiency Testing outliers and corrective action records

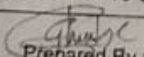
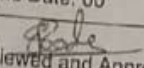
PAGE 1 OF 1


Sr. No	Date	Test Name	Lab Reported Result	Peer / Expected Value	Details of Root Cause analysis and Corrective action taken	Done by	Sign
1.	22/7/21	Urea	32.24	23.47	Reagent changed & QC reprocessed, QC values found satisfactory		
2.		EQAS Sample - 3					
3.					Root Cause: Reagent Deteriorated as	Sanket	
4.		Urea	29.61	21.88	the reagent open stability expired.		
5.		EQAS Sample - 4			Corrective Action: Check the reagent open stability before use every time.		
6.							
7.							



	<b>SADBHAVANA PATHOLOGY LAB</b>	
SPL - 06	Internal Quality Control records	PAGE 1 OF 1

Date	Test Name	QC Level	QC Reading	QC- Acceptable Range $\pm 5\%$	Accepted / Rejected	Processed and reviewed by
05/07/21	Creat	L1	1.97	1.90-2.10	Accepted	
	Glucose	L1	102.8	95 - 105	Accepted	
	Cholesterol	L1	202.6	190 - 210	Accepted	
	TGL	L1	201.6	190-210	Accepted	
	Uric acid	L1	6.10	5.7 - 6.3	Accepted	
	CRP	RPOS	56.4	55.95 - 68.38	Accepted	
	Urea	L1	42	38 - 42	Accepted	
	HIV	PC	Positive	Positive	Accepted	
		NC	Negative	Negative	Accepted	
	HbsAg	RPC	Positive	Positive	Accepted	
		RNC	Negative	Negative	Accepted	
	Widal	OPC	Positive	Positive	Accepted	
		HPC	Negative	Negative	Accepted	
	CA	L1	10.40	9.5 - 10.5	Accepted	

Issue No. 1	Issue Date : 16-04-2020	Amend No. 00	Amend Date. 00	Page 1 of 1
Prepared By :  Mr. Prasad Ghadage		Reviewed and Approved By  Mr. Sanket Rode		

 **SADBHAVANA PATHOLOGY LAB**  
SPL - 06 Internal Quality Control records PAGE 1 OF 1

Date	Test Name	QC Level	QC Reading	QC-Acceptable Range $\pm$ 5%	Accepted / Rejected	Processed and reviewed by
22-07-20	Vacu	L1	40	38-42	Accepted	

Issue No. 1 Issue Date : 16-04-2020 Amend No. 00 Amend Date. 00 Page 1 of 1  
Prepared By : *Prasad Ghadage* Mr. Prasad Ghadage  
Reviewed and Approved By : *Sanket Rode* Mr. Sanket Rode