

| 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 ≤ 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 01

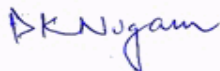
Report Date : 19/07/2021

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 % |



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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

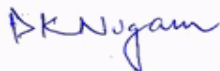
Report Date : 19/07/2021

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 % |



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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 \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 03

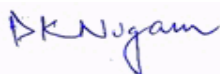
Report Date : 19/07/2021

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 % |



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 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: _____

Corrective Action: _____

Reviewed by: _____

Dated: _____

SADBHAVANA PATHOLOGY LAB (446)

Outlier And Analyte Summary Report

Result Details For Cycle No 210207 and Sample No 04

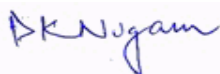
Report Date : 19/07/2021

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 % |



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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

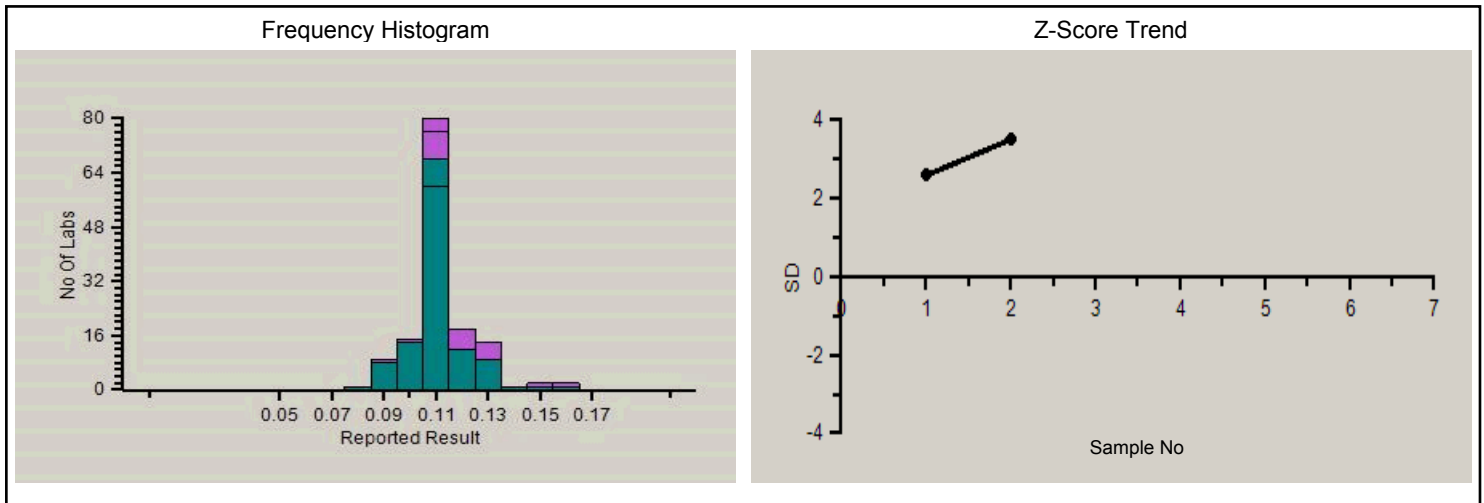
Biochemistry, Bilirubin Direct, mg/dl

| | 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 |

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



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 | | N | Mean | SD | CV% | Excluded |
|--------------------------------|-------------------------|----------|-----------|-----------|-----------|----------|
| | All Analyzer | 228 | 0.11 | 0.02 | 17.76 | 83 |
| Your Analyzer : | Erba Chem 5/Plus | 1 | -- | -- | -- | 1 |
| | 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.

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 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

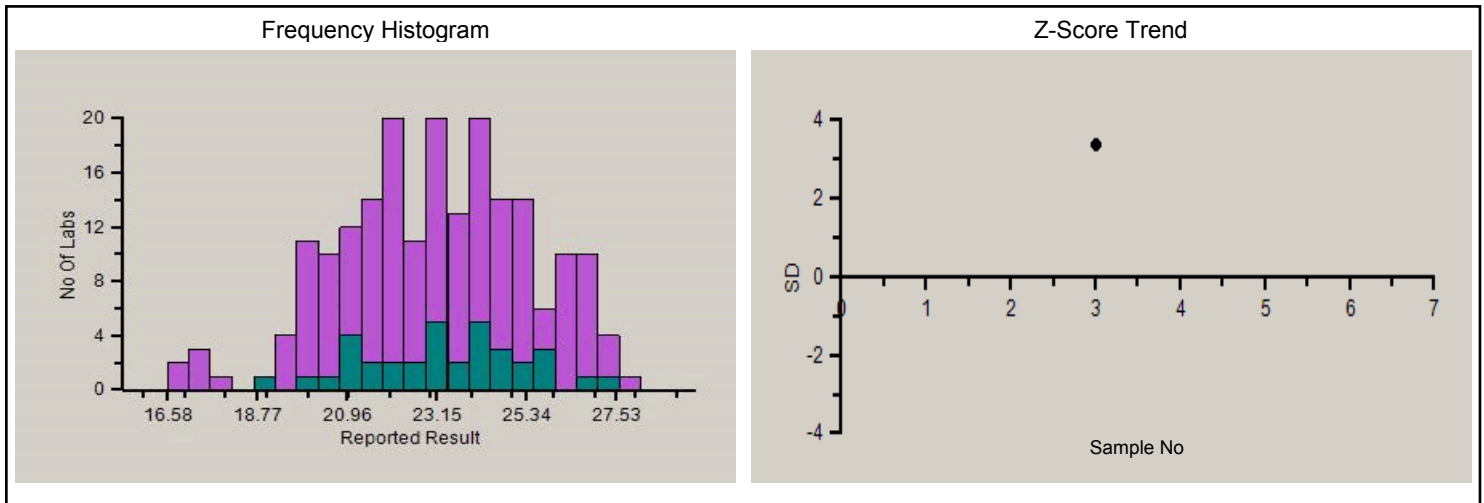
Biochemistry, Urea, mg/dl

| | 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 |

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



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 | | N | Mean | SD | CV% | Excluded |
|------------------------|-------------------------|----------|-----------|-----------|-----------|----------|
| | All Analyzer | 234 | 23.14 | 2.18 | 9.40 | 14 |
| Your Analyzer : | Erba Chem 5/Plus | 1 | -- | -- | -- | 1 |
| | 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.

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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

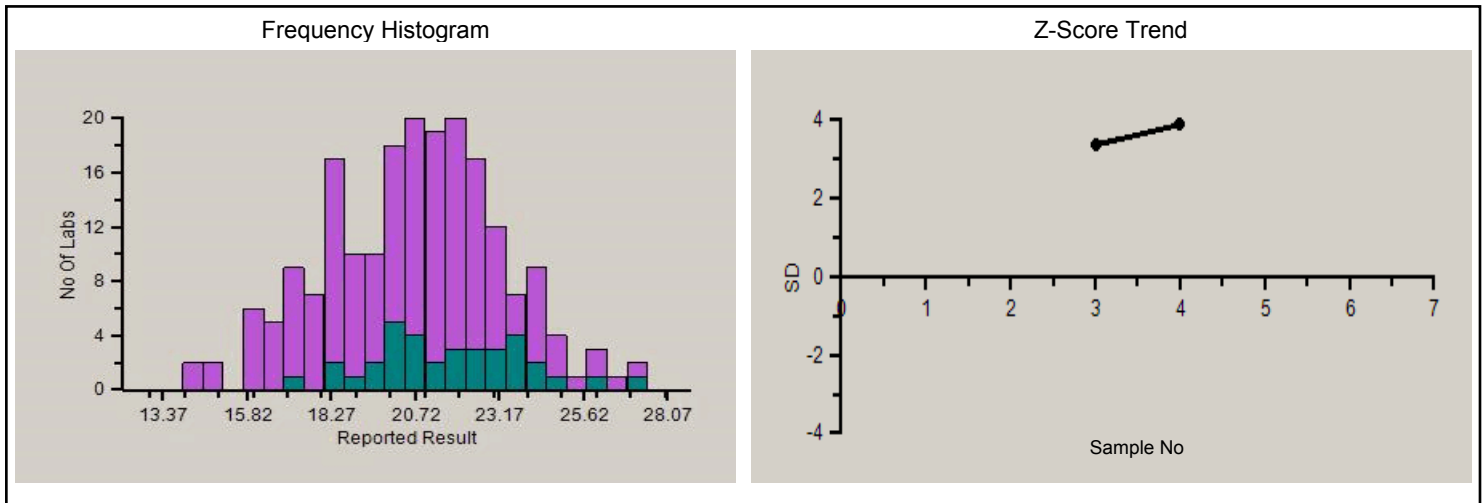
Biochemistry, Urea, mg/dl

| | 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 |

| | | | |
|---------------------------------|-------|--------------------------|-------|
| Your Result | 29.61 | SDI / z-Score | 3.89 |
| Assigned Value | 21.88 | Average SDI | 3.63 |
| SDPA | 1.988 | Uncertainty of AV | 0.41 |
| Standard Unit Result Val | 29.61 | %DEV | 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 |
| Your Analyzer : | Erba Chem 5/Plus | 1 | -- | -- | -- | 1 |
| | 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.

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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. | | | | | | | |