



HYTECH INSTRUMENT

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Calibration Certificate

Page No. : 01 of 01

Format No. : HY/FM/33

| | | |
|-----------------------------------|----------------|---|
| Certificate No. | HY/21/1371-175 | CALIBRATION CERTIFICATE OF Semi Automatic Bio-Chemistry Analyzer |
| Date of Calibration : | 26.11.2021 | |
| Next Date for Calibration | 26.11.2022 | |
| (As per agreed with the Customer) | | |
| Certificate Issue Date | 27.11.2021 | |

| | | | |
|---|---------------|--|--------------------|
| CUSTOMER ADDRESS | | DESCRIPTION OF DEVICE UNDER CALIBRATION | |
| M/s Care Hospital (A Unit of Goel Superspeciality Medical Centre Pvt.Ltd.) Near Delapeer Petrol Pump, Stadium Road, Bareilly - 243001 INDIA | | Make / Model | Transasia/Chem 5V2 |
| | | Instrument Sr. No. | 90140 |
| | | Resolution / Least Count | As Per Range |
| | | Range / Size | As Per Instrument |
| SERVICE REQUEST FORM DETAILS | | Asset Code / I.D No. | ---- |
| Service Request / Job No. | 1371/1371-175 | Location | Path Lab |
| Service Request Dated | 24.11.2021 | Instrument Condition | In working |

| | | | | |
|---------------------------------|--------------------|---------------------------------|--------------------------|---------------|
| Calibration Procedure | HY/WI/2MD08 | Calibration Performed At | At Site | |
| Reference Standard | NABL-126 | Discipline | Medical | |
| ENVIRONMENTAL CONDITIONS | Temperature | (25 ± 15) °C | Relative Humidity | (50 ± 20) %RH |

DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION

| Sr. No | Instrument Details | Certificate No. | Calibrated By | Calibration Due Date |
|--------|----------------------------------|--------------------|---------------|----------------------|
| 1 | Process Calibrator With Analyzer | HY/22/1487-1 | Hytech | 17.03.2023 |
| 2 | RTD Sensor with Indicator | GC/AV/P1398A/08/21 | GC | 12.08.2022 |
| 3 | Std. Weights | Tycon/WB/09/127 | Tycon | 21.09.2023 |
| 4 | Digital Weighing Machine | CC20552100000235F | TNC | 09.09.2022 |
| 5 | Electrical Safety Analyzer | CCTPL/DAM/0009/02 | Calys | 19.01.2023 |

The Standards used for calibration are traceable to National Standards.

CALIBRATION RESULT

| PARAMETER | DUC VALUE(µl) | STANDARD VALUE(µl) | ERROR(µl) | Uncertainty± (µl) |
|-----------------------|----------------|--------------------|-----------|-------------------|
| Volume | 200 | 200.17 | -0.17 | 4.0 |
| | 500 | 500.28 | -0.28 | 4.0 |
| PARAMETER | DUC VALUE(µl) | STANDARD VALUE(µl) | ERROR(µl) | Uncertainty± (µl) |
| Aspiration Volume | 100 | 100.17 | -0.17 | 4.0 |
| | 200 | 200.23 | -0.23 | 4.0 |
| | 400 | 400.26 | -0.26 | 4.0 |
| PARAMETER | DUC VALUE(mm) | STANDARD VALUE(mm) | ERROR(mm) | Uncertainty± (mm) |
| Low Cell Optical Path | 5 | 5.02 | -0.02 | 4.0 |
| | 10 | 10.03 | -0.03 | 4.0 |

| Maxima Found at | Standard Wavelength | Tolerance Limit |
|-----------------|---------------------|------------------------|
| 360nm | 360.50nm | (upto 400 nm)±1nm |
| 419nm | 418.80nm | (400 upto 600 nm)±3nm |
| 537nm | 536.40nm | (400 upto 600 nm)±3nm |
| 640nm | 638.30nm | (600 upto 1000 nm)±4nm |

| PARAMETER | DUC VALUE (°C) | STANDARD VALUE (°C) | ERROR (°C) | Uncertainty ± (°C) |
|-------------|----------------|---------------------|------------|--------------------|
| Temperature | 20.1 | 20.004 | 0.096 | 0.25 |
| | 25.1 | 25.016 | 0.084 | 0.25 |
| | 30.2 | 30.038 | 0.162 | 0.25 |
| | 35.3 | 35.054 | 0.246 | 0.25 |

Expanded Uncertainty of measurement at approximately 95% Confidence Level with coverage factor k=2

- Note :-**
1. DUC = Device Under Calibration
 2. The Certificate refers only to the particular items submitted for Calibration.
 3. This Certificate shall not be reproduced, except in full, without permission of CEO Hytech Instrument, Ghaziabad.
 4. Result Reported are Valid at the time of and under the stated conditions of measurement.
 5. Calibration Certificate issue for weight & Measure parameters i.e. Mass, Balance Volumetric equipment, Measuring Scale/Tapes etc. for scientific purpose only and should not be used for Trade / Commercial use.

CALIBRATED BY
(Calib. Engineer)

APPROVED BY
(QM/IN)



VIEW LAB MONTHLY SUMMARY

Lab Name CARE HOSPITAL
 Lab No 9041
 Month June
 Year 2022
 Constituent Group Chemistry II

Details About Robust Analysis

Detail About Monthly Summary

Detail about SDI

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 11/06/2022

Date of Report Published : 07/07/2022

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | DV | Participants CV | SD | Your Value | SDI | U |
|-------|-----------------|---|--|--------------------|--------|-----------------|-------|-------------|-------|------|
| 1 | GLUCOSE II | GOD-POD II | Transasia / Erba | 849 | 86.39 | 9.86 | 8.52 | 80.72 mg/dL | -0.67 | 0.58 |
| 2 | UREA II | Others (Urease Berthelot / Ned Dye) II | Any Analyser (Automation / Semi Automation) | 844 | 44.87 | 12.88 | 5.78 | 49.6 mg/dL | 0.82 | 0.40 |
| 3 | CREATININE II | Jaffes Kinetic-Alkaline Picrate II | Transasia / Erba | 554 | 1.94 | 11.95 | 0.23 | 1.88 mg/dL | -0.26 | 0.02 |
| 4 | T.BILIRUBIN II | Diazonium Salt (Colorimetric) / Jendrassik II | Transasia / Erba | 735 | 3.82 | 10.81 | 0.41 | 3.5 mg/dL | -0.77 | 0.03 |
| 5 | T-PROTEIN II | Biuret - Colorimetric II | Transasia / Erba | 723 | 6.14 | 8.88 | 0.55 | 6.24 g/dL | 0.18 | 0.04 |
| 6 | ALBUMIN II | BCG - Colorimetric II | Transasia / Erba | 700 | 3.51 | 8.77 | 0.31 | 3.25 g/dL | -0.84 | 0.02 |
| 7 | URIC ACID II | Enzymatic / Uricase Colorimetric II | Transasia / Erba | 742 | 6.84 | 12.50 | 0.86 | 7.7 mg/dL | 1.01 | 0.06 |
| 8 | CHOLESTROL II | CHOD-PAP II | Transasia / Erba | 810 | 120.81 | 12.10 | 14.62 | 174 mg/dL | 3.64 | 1.03 |
| 9 | TRIGLYCERIDE II | GPO-PAP / Enzymatic Colorimetric / End Point II | Transasia / Erba | 736 | 152.58 | 12.98 | 19.81 | 167 mg/dL | 0.73 | 1.46 |

| SDI Range | Interpretation |
|-----------------------|--|
| Within -1.00 to +1.00 | Excellent. |
| Within ±1.01 to ±2.00 | Good. |
| Within ±2.01 to ±2.99 | Accept with caution. Warning Signal. |
| Beyond ±3.0 | Unacceptable performance. Action Signal. |

VIEW LAB MONTHLY SUMMARY

| | | |
|-------------------|---------------|-------------------------------|
| Lab Name | CARE HOSPITAL | Details About Robust Analysis |
| Lab No | 9041 | Detail About Monthly Summary |
| Month | April | Detail about SDI |
| Year | 2022 | |
| Constituent Group | Chemistry II | |

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 05/04/2022

Date of Report Published : 05/05/2022

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | DV | Participants CV | Participants SD | Your Value | SDI | U |
|-------|-----------------|---|--|--------------------|--------|-----------------|-----------------|-------------|-------|------|
| 1 | GLUCOSE II | GOD-POD II | Transasia / Erba | 799 | 223.18 | 10.20 | 22.77 | 210 mg/dL | -0.58 | 1.61 |
| 2 | UREA II | Others (Urease Berthelot / Ned Dye) II | Any Analyser (Automation / Semi Automation) | 784 | 38.76 | 12.99 | 5.03 | 42.62 mg/dL | 0.77 | 0.36 |
| 3 | CREATININE II | Jaffes Kinetic- Alkaline Picrate II | Transasia / Erba | 518 | 4.68 | 10.61 | 0.50 | 4.28 mg/dL | -0.80 | 0.04 |
| 4 | T.BILIRUBIN II | Diazonium Salt (Colorimetric) / Jendrassik II | Transasia / Erba | 703 | 2.90 | 11.57 | 0.34 | 1.87 mg/dL | -3.03 | 0.03 |
| 5 | T-PROTEIN II | Biuret - Colorimetric II | Transasia / Erba | 672 | 5.80 | 8.17 | 0.47 | 5.84 g/dL | 0.08 | 0.04 |
| 6 | ALBUMIN II | BCG - Colorimetric II | Transasia / Erba | 649 | 3.38 | 8.14 | 0.28 | 2.97 g/dL | -1.49 | 0.02 |
| 7 | URIC ACID II | Enzymatic / Uricase Colorimetric II | Transasia / Erba | 730 | 7.12 | 12.13 | 0.86 | 7.06 mg/dL | -0.07 | 0.06 |
| 8 | CHOLESTROL II | CHOD-PAP II | Transasia / Erba | 754 | 111.29 | 11.48 | 12.78 | 97 mg/dL | -1.12 | 0.93 |
| 9 | TRIGLYCERIDE II | GPO-PAP / Enzymatic Colorimetric / End Point II | Transasia / Erba | 726 | 114.85 | 16.13 | 18.52 | 119.7 mg/dL | 0.26 | 1.37 |

| SDI Range | Interpretation |
|---------------------------------|--|
| Within -1.00 to +1.00 | Excellent. |
| Within ± 1.01 to ± 2.00 | Good. |
| Within ± 2.01 to ± 2.99 | Accept with caution. Warning Signal. |
| Beyond ± 3.0 | Unacceptable performance. Action Signal. |

VIEW LAB MONTHLY SUMMARY

| | | |
|-------------------|---------------|-------------------------------|
| Lab Name | CARE HOSPITAL | Details About Robust Analysis |
| Lab No | 9041 | Detail About Monthly Summary |
| Month | March | Detail about SDI |
| Year | 2022 | |
| Constituent Group | Chemistry II | |

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 04/03/2022

Date of Report Published : 06/04/2022

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | DV | Participants CV | Participants SD | Your Value | SDI | U |
|-------|-----------------|---|--|--------------------|--------|-----------------|-----------------|-------------|-------|------|
| 1 | GLUCOSE II | GOD-POD II | Transasia / Erba | 791 | 109.92 | 9.69 | 10.65 | 104 mg/dL | -0.56 | 0.76 |
| 2 | UREA II | Others (Urease Berthelot / Ned Dye) II | Any Analyser (Automation / Semi Automation) | 741 | 78.61 | 11.58 | 9.11 | 79.42 mg/dL | 0.09 | 0.67 |
| 3 | CREATININE II | Jaffes Kinetic- Alkaline Picrate II | Transasia / Erba | 459 | 3.84 | 11.18 | 0.43 | 3.59 mg/dL | -0.58 | 0.04 |
| 4 | T.BILIRUBIN II | Diazonium Salt (Colorimetric) / Jendrassik II | Transasia / Erba | 668 | 1.57 | 19.28 | 0.30 | 1.46 mg/dL | -0.36 | 0.02 |
| 5 | T-PROTEIN II | Biuret - Colorimetric II | Transasia / Erba | 593 | 5.34 | 8.62 | 0.46 | 8.42 g/dL | 6.7 | 0.04 |
| 6 | ALBUMIN II | BCG - Colorimetric II | Transasia / Erba | 633 | 3.15 | 9.30 | 0.29 | 3.62 g/dL | 1.60 | 0.02 |
| 7 | URIC ACID II | Enzymatic / Uricase Colorimetric II | Transasia / Erba | 637 | 8.01 | 11.65 | 0.93 | 7.51 mg/dL | -0.54 | 0.07 |
| 8 | CHOLESTROL II | CHOD-PAP II | Transasia / Erba | 700 | 105.41 | 11.28 | 11.89 | 101 mg/dL | -0.37 | 0.90 |
| 9 | TRIGLYCERIDE II | GPO-PAP / Enzymatic Colorimetric / End Point II | Transasia / Erba | 679 | 188.91 | 11.47 | 21.66 | 186 mg/dL | -0.13 | 1.66 |

| SDI Range | Interpretation |
|-----------------------|--|
| Within -1.00 to +1.00 | Excellent. |
| Within ±1.01 to ±2.00 | Good. |
| Within ±2.01 to ±2.99 | Accept with caution. Warning Signal. |
| Beyond ±3.0 | Unacceptable performance. Action Signal. |

VIEW LAB MONTHLY SUMMARY

| | | |
|-------------------|---------------|-------------------------------|
| Lab Name | CARE HOSPITAL | Details About Robust Analysis |
| Lab No | 9041 | Detail About Monthly Summary |
| Month | February | Detail about SDI |
| Year | 2022 | |
| Constituent Group | Chemistry II | |

Click on the analyte to view Graphical Data

[All Analyser Result](#)

[Print](#)

Date of Result Entered : 08/02/2022

Date of Report Published : 05/03/2022

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | DV | Participants CV | Participants SD | Your Value | SDI | U |
|-------|-----------------|---|--|--------------------|--------|-----------------|-----------------|-------------|-------|------|
| 1 | GLUCOSE II | GOD-POD II | Transasia / Erba | 728 | 278.22 | 10.88 | 30.27 | 253.8 mg/dL | -0.81 | 2.24 |
| 2 | UREA II | Others (Urease Berthelot / Ned Dye) II | Any Analyser (Automation / Semi Automation) | 774 | 31.02 | 13.91 | 4.32 | 36.2 mg/dL | 1.20 | 0.31 |
| 3 | CREATININE II | Jaffes Kinetic- Alkaline Picrate II | Transasia / Erba | 480 | 1.14 | 12.72 | 0.14 | 1.38 mg/dL | 1.66 | 0.01 |
| 4 | T.BILIRUBIN II | Diazonium Salt (Colorimetric) / Jendrassik II | Transasia / Erba | 614 | 5.06 | 11.12 | 0.56 | 3.6 mg/dL | -2.59 | 0.05 |
| 5 | T-PROTEIN II | Biuret - Colorimetric II | Transasia / Erba | 604 | 5.81 | 9.02 | 0.52 | 6.16 g/dL | 0.67 | 0.04 |
| 6 | ALBUMIN II | BCG - Colorimetric II | Transasia / Erba | 597 | 3.40 | 8.90 | 0.30 | 3.5 g/dL | 0.33 | 0.02 |
| 7 | URIC ACID II | Enzymatic / Uricase Colorimetric II | Transasia / Erba | 524 | 4.45 | 12.44 | 0.55 | 5.01 mg/dL | 1.01 | 0.05 |
| 8 | CHOLESTROL II | CHOD-PAP II | Transasia / Erba | 678 | 112.37 | 11.73 | 13.18 | 108 mg/dL | -0.33 | 1.01 |
| 9 | TRIGLYCERIDE II | GPO-PAP / Enzymatic Colorimetric / End Point II | Transasia / Erba | 661 | 88.35 | 21.56 | 19.05 | 87.6 mg/dL | -0.04 | 1.48 |

| SDI Range | Interpretation |
|-----------------------|--|
| Within -1.00 to +1.00 | Excellent. |
| Within ±1.01 to ±2.00 | Good. |
| Within ±2.01 to ±2.99 | Accept with caution. Warning Signal. |
| Beyond ±3.0 | Unacceptable performance. Action Signal. |

VIEW LAB MONTHLY SUMMARY

| | | |
|-------------------|---------------|-------------------------------|
| Lab Name | CARE HOSPITAL | Details About Robust Analysis |
| Lab No | 9041 | Detail About Monthly Summary |
| Month | January | Detail about SDI |
| Year | 2022 | |
| Constituent Group | Chemistry II | |

Click on the analyte to view Graphical Data

All Analyser Result

Print

Date of Result Entered : 20/01/2022

Date of Report Published : 07/02/2022

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | DV | Participants | | Your Value | SDI | U |
|-------|-----------------|---|--|--------------------|--------|--------------|-------|-------------|-------|------|
| | | | | | | CV | SD | | | |
| 1 | GLUCOSE II | GOD-POD II | Transasia / Erba | 687 | 130.44 | 8.67 | 11.30 | 133.1 mg/dl | 0.24 | 0.86 |
| 2 | UREA II | Others (Urease Berthelot / Ned Dye) II | Any Analyser (Automation / Semi Automation) | 740 | 47.34 | 12.33 | 5.84 | 54.2 mg/dl | 1.18 | 0.43 |
| 3 | CREATININE II | Jaffes Kinetic-Alkaline Picrate II | Transasia / Erba | 434 | 1.70 | 10.33 | 0.18 | 1.72 mg/dl | 0.11 | 0.02 |
| 4 | T.BILIRUBIN II | Diazonium Salt (Colorimetric) / Jendrassik II | Transasia / Erba | 615 | 2.30 | 15.28 | 0.35 | 2.01 mg/dl | -0.83 | 0.03 |
| 5 | T-PROTEIN II | Biuret - Colorimetric II | Transasia / Erba | 556 | 5.38 | 9.07 | 0.49 | 5.82 g/dl | 0.90 | 0.04 |
| 6 | ALBUMIN II | BCG - Colorimetric II | Transasia / Erba | 577 | 3.15 | 8.76 | 0.28 | 2.87 g/dl | -1.01 | 0.02 |
| 7 | URIC ACID II | Enzymatic / Uricase Colorimetric II | Transasia / Erba | 592 | 7.17 | 12.44 | 0.89 | 7.1 mg/dl | -0.08 | 0.07 |
| 8 | CHOLESTROL II | CHOD-PAP II | Transasia / Erba | 636 | 101.83 | 11.62 | 11.83 | 100.3 mg/dl | -0.13 | 0.94 |
| 9 | TRIGLYCERIDE II | GPO-PAP / Enzymatic Colorimetric / End Point II | Transasia / Erba | 577 | 115.89 | 15.40 | 17.85 | 103.2 mg/dl | -0.71 | 1.49 |

| SDI Range | Interpretation |
|---------------------------------|--|
| Within -1.00 to +1.00 | Excellent. |
| Within ± 1.01 to ± 2.00 | Good. |
| Within ± 2.01 to ± 2.99 | Accept with caution. Warning Signal. |
| Beyond ± 3.0 | Unacceptable performance. Action Signal. |

VIEW LAB MONTHLY SUMMARY

Lab Name CARE HOSPITAL Details About Robust Analysis
 Lab No 9041 Detail About Monthly Summary
 Month December Detail about SDI
 Year 2021
 Constituent Chemistry II
 Group

Click on the analyte to view Graphical Data

[All Analyser Result](#) [Print](#)

Date of Result Entered : 11/12/2021

Date of Report Published : 03/01/2022

| Sl.No | Analyte | Method / Principle Name | Analyzer Name | No of Participants | DV | Participants | | Your Value | SDI | U |
|-------|-----------------|---|--|--------------------|--------|--------------|-------|-------------|-------|------|
| | | | | | | CV | SD | | | |
| 1 | GLUCOSE II | GOD-POD II | Transasia / Erba | 735 | 220.59 | 10.06 | 22.19 | 175.8 mg/dl | -2.02 | 1.64 |
| 2 | UREA II | Others (Urease Berthelot / Ned Dye) II | Any Analyser (Automation / Semi Automation) | 762 | 105.93 | 13.00 | 13.77 | 109.1 mg/dl | 0.23 | 1.00 |
| 3 | CREATININE II | Jaffes Kinetic-Alkaline Picrate II | Transasia / Erba | 488 | 2.27 | 9.44 | 0.21 | 2.22 mg/dl | -0.23 | 0.02 |
| 4 | T.BILIRUBIN II | Diazonium Salt (Colorimetric) / Jendrassik II | Transasia / Erba | 649 | 2.93 | 11.30 | 0.33 | 3.34 mg/dl | 1.24 | 0.03 |
| 5 | T-PROTEIN II | Biuret - Colorimetric II | Transasia / Erba | 665 | 5.34 | 9.22 | 0.49 | 5.7 g/dl | 0.73 | 0.04 |
| 6 | ALBUMIN II | BCG - Colorimetric II | Transasia / Erba | 650 | 3.21 | 9.20 | 0.30 | 3.13 g/dl | -0.27 | 0.02 |
| 7 | URIC ACID II | Enzymatic / Uricase Colorimetric II | Transasia / Erba | 637 | 4.08 | 14.87 | 0.61 | 4.65 mg/dl | 0.94 | 0.05 |
| 8 | CHOLESTROL II | CHOD-PAP II | Transasia / Erba | 716 | 104.99 | 12.01 | 12.61 | 99.78 mg/dl | -0.41 | 0.94 |
| 9 | TRIGLYCERIDE II | GPO-PAP / Enzymatic Colorimetric / End Point II | Transasia / Erba | 605 | 85.49 | 17.53 | 14.98 | 180 mg/dl | 6.31 | 1.22 |

| SDI Range | Interpretation |
|-----------------------|--|
| Within -1.00 to +1.00 | Excellent. |
| Within ±1.01 to ±2.00 | Good. |
| Within ±2.01 to ±2.99 | Accept with caution. Warning Signal. |
| Beyond ±3.0 | Unacceptable performance. Action Signal. |