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**TEST CERTIFICATE**

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| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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| **INSTRUMENT DESCRIPTION**  Make : Protech  Model : AX-3  SI. No : BAS-H2DF-60  AHU No : 15 |  |  |
| **Date of Testing** | 07.10.2021 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

**TESTING RESULTS**

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| **SL.No** | **Description** | **Observation** | **Remark** |
| **1** | **Power Supply (DC Voltage)** | **3.3v- 3.3 ,5v- 4.98 , 12v- 12.08 , -5v- -4.98** | **OK** |
| **2** | **485 Communication** | **Tested Ok** | **OK** |
| **3** | **Actuator O/P** | **(0-10)v DC** | **OK** |
| **4** | **VFD O/P** | **(0-10)v DC** | **OK** |
| **5** | **VFB Input** | **(0-10v)DC** | **OK** |
| **6** | **Temp. Sensor Ports** | **Tested Ok** | **OK** |
| **7** | **Relays** | **Tested Ok** | **OK** |
| **8** | **Status Ports** | **Tested Ok** | **OK** |

**Remarks**: *All Parameters are well and tested ok.*

Tested by

Date: 07.10.2021

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**CALIBRATION CERTIFICATE**

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| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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| **INSTRUMENT DESCRIPTION**  Make : Protech Dew point Monitor(Supply Air)  Model : DPHT-3  SI. No : BAS-H2DF-60  Range : 0 to 100° C &30- 90RH%  AHU No : 15 |  |  |
| **Reference No** | PRT:9144/2021-2022 |
| **Date of Calibration** | 13.09.2021 |
| **Recommended Due Date** | 12.09.2022 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

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| **Standard / Calibration Used** | **Traceable to** |
| TESTO 625 Thermo hygrometer  Sl.No:62936315 | Trace able to National Standards  Cert No: 012101349  Due Date: 02.08.2022 |

The Calibration used is traceable to national standards

**CALIBRATION RESULTS**

**TEMPERATURE (°C)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.No** | **Standard Readings** | **UUC Readings** | **Deviation** | **Max Error** |
| 1 | 05.2 | 05.0 | -0.2 | ±0.3°C |
| 2 | 15.1 | 15.2 | +0.1 | ±0.3°C |
| 3 | 25.3 | 25.5 | +0.2 | ±0.3°C |
| 4 | 47.2 | 46.9 | -0.3 | ±0.3°C |
| 5 | 55.2 | 55.1 | -0.1 | ±0.3°C |

**HUMIDITY (RH %)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No** | **Standard Readings** | **UUC Readings** | **Deviations** | **Max Error** |
| 1 | 95 | 91 | -4 | ±5% |
| 2 | 73 | 76 | +3 | ±5% |
| 3 | 63 | 62 | -1 | ±5% |
| 4 | 43 | 40 | -3 | ±5% |
| 5 | 33 | 31 | -2 | ±5% |

**Remarks**: *All Parameters are well within the acceptable*

Calibrated by

Date: 13.09.2021

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**CALIBRATION CERTIFICATE**

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| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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| **INSTRUMENT DESCRIPTION**  Make : Protech Dew point Monitor(Return Air)  Model : DPHT-3  SI. No : BAS-H2DF-60  Range : 0 to 100° C &30- 90RH%  AHU No : 15 |  |  |
| **Reference No** | PRT:9145/2021-2022 |
| **Date of Calibration** | 13.09.2021 |
| **Recommended Due Date** | 12.09.2022 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

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| **Standard / Calibration Used** | **Traceable to** |
| TESTO 625 Thermo hygrometer  Sl.No:62936315 | Trace able to National Standards  Cert No: 012101349  Due Date: 02.08.2022 |

The Calibration used is traceable to national standards

**CALIBRATION RESULTS**

**TEMPERATURE (°C)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.No** | **Standard Readings** | **UUC Readings** | **Deviation** | **Max Error** |
| 1 | 05.2 | 05.4 | +0.2 | ±0.3°C |
| 2 | 15.1 | 15.4 | +0.3 | ±0.3°C |
| 3 | 25.3 | 25.1 | -0.2 | ±0.3°C |
| 4 | 47.2 | 47.1 | -0.1 | ±0.3°C |
| 5 | 55.2 | 55.3 | +0.1 | ±0.3°C |

**HUMIDITY (RH %)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.No** | **Standard Readings** | **UUC Readings** | **Deviations** | **Max Error** |
| 1 | 95 | 91 | -4 | ±5% |
| 2 | 73 | 72 | -1 | ±5% |
| 3 | 63 | 60 | -3 | ±5% |
| 4 | 43 | 45 | +2 | ±5% |
| 5 | 33 | 28 | -5 | ±5% |

**Remarks**: *All Parameters are well within the acceptable*

Calibrated by

Date: 13.09.2021

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**CALIBRATION CERTIFICATE**

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| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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| **INSTRUMENT DESCRIPTION**  Make : Protech Temperature Sensor  Model : AX-3(Supply Air Temp. Sensor)  SI. No : BAS-H2DF-60  Range : 0 to 100° C  AHU No : 15 |  |  |
| **Reference No** | PRT:9147/2021-2022 |
| **Date of Calibration** | 13.09.2021 |
| **Recommended Due Date** | 12.09.2022 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

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| **Standard / Calibration Used** | **Traceable to** |
| TESTO 625 Thermo hygrometer  Sl.No:62936315 | Trace able to National Standards  Cert No: 012101349  Due Date: 02.08.2022 |

The Calibration used is traceable to national standards

**CALIBRATION RESULTS**

**TEMPERATURE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.No** | **Standard Readings** | **UUC Readings** | **Deviation** | **Max Error** |
| 1 | 15.2 | 15.4 | +0.2 | ±0.3°C |
| 2 | 25.1 | 24.8 | -0.3 | ±0.3°C |
| 3 | 35.3 | 35.5 | +0.2 | ±0.3°C |
| 4 | 57.2 | 57.3 | +0.1 | ±0.3°C |
| 5 | 97.2 | 97.1 | -0.1 | ±0.3°C |

**Remarks**: *All Parameters are well within the acceptable*

Calibrated by

Date: 13.09.2021

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**CALIBRATION CERTIFICATE**

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| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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| **INSTRUMENT DESCRIPTION**  Make : Protech Temperature Sensor  Model : AX-3(Fresh Air Temp. Sensor)  SI. No : BAS-H2DF-60  Range : 0 to 100° C  AHU No : 15 |  |  |
| **Reference No** | PRT:9148/2021-2022 |
| **Date of Calibration** | 13.09.2021 |
| **Recommended Due Date** | 12.09.2022 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

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| **Standard / Calibration Used** | **Traceable to** |
| TESTO 625 Thermo hygrometer  Sl.No:62936315 | Trace able to National Standards  Cert No: 012101349  Due Date: 02.08.2022 |

The Calibration used is traceable to national standards

**CALIBRATION RESULTS**

**TEMPERATURE (°C)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.No** | **Standard Readings** | **UUC Readings** | **Deviation** | **Max Error** |
| 1 | 15.2 | 15.1 | -0.1 | ±0.3°C |
| 2 | 25.1 | 24.8 | -0.3 | ±0.3°C |
| 3 | 35.3 | 35.4 | +0.1 | ±0.3°C |
| 4 | 57.2 | 57.4 | +0.2 | ±0.3°C |
| 5 | 97.2 | 97.0 | -0.2 | ±0.3°C |

**Remarks**: *All Parameters are well within the acceptable*

Calibrated by

Date: 13.09.2021

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**CALIBRATION CERTIFICATE**

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| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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| **INSTRUMENT DESCRIPTION**  Make : Protech Temperature Sensor  Model : AX-3(CWS Temp. Sensor)  SI. No : BAS-H2DF-60  Range : 0 to 100° C  AHU No : 15 |  |  |
| **Reference No** | PRT:9149/2021-2022 |
| **Date of Calibration** | 13.09.2021 |
| **Recommended Due Date** | 12.09.2022 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

|  |  |
| --- | --- |
| **Standard / Calibration Used** | **Traceable to** |
| TESTO 625 Thermo hygrometer  Sl.No:62936315 | Trace able to National Standards  Cert No: 012101349  Due Date: 02.08.2022 |

The Calibration used is traceable to national standards

**CALIBRATION RESULTS**

**TEMPERATURE (°C)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.No** | **Standard Readings** | **UUC Readings** | **Deviation** | **Max Error** |
| 1 | 05.2 | 04.9 | -0.3 | ±0.3°C |
| 2 | 10.1 | 10.4 | +0.3 | ±0.3°C |
| 3 | 15.3 | 15.2 | -0.1 | ±0.3°C |
| 4 | 27.2 | 27.0 | -0.2 | ±0.3°C |
| 5 | 47.2 | 47.3 | +0.1 | ±0.3°C |

**Remarks**: *All Parameters are well within the acceptable*

Calibrated by

Date: 13.09.2021

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**CALIBRATION CERTIFICATE**

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| --- | --- | --- |
| **CUSTOMER NAME & ADDRESS:**  **M/s. Glenmark Pharmaceuticals Ltd.**  Plot No:-E37 To E39, D Road, MIDC Satpur, Nashik,  Maharashtra- 422007 |  |  |
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|  |  |
| **INSTRUMENT DESCRIPTION**  Make : Protech Temperature Sensor  Model : AX-3(CWR Temp. Sensor)  SI. No : BAS-H2DF-30  Range : 0 to 100° C  AHU No : 15 |  |  |
| **Reference No** | PRT:9150/2021-2022 |
| **Date of Calibration** | 13.09.2021 |
| **Recommended Due Date** | 12.09.2022 |
| **Environmental condition** | Temperature : 0 -100 0 C |
| Relative Humidity : 30-90% |
| **Instrument Condition** | Good |

|  |  |
| --- | --- |
| **Standard / Calibration Used** | **Traceable to** |
| TESTO 625 Thermo hygrometer  Sl.No:62936315 | Trace able to National Standards  Cert No: 012101349  Due Date: 02.08.2022 |

The Calibration used is traceable to national standards

**CALIBRATION RESULTS**

**TEMPERATURE (°C)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.No** | **Standard Readings** | **UUC Readings** | **Deviation** | **Max Error** |
| 1 | 05.2 | 05.1 | -0.1 | ±0.3°C |
| 2 | 10.1 | 10.3 | +0.2 | ±0.3°C |
| 3 | 15.3 | 15.0 | -0.3 | ±0.3°C |
| 4 | 27.2 | 27.5 | +0.3 | ±0.3°C |
| 5 | 47.2 | 47.3 | +0.1 | ±0.3°C |

**Remarks**: *All Parameters are well within the acceptable*

Calibrated by

Date: 13.09.2021