



Calibration/Performance Certificate

19 December 2019

This is to certify that Access 2 (SR. NO. 506752) installed at the **Raghav Path Labs Pvt Ltd. Haldwani, Uttarakhand**

The system parameters as mentioned below were verified and necessary calibrations done as applicable.

System temperatures

| Temperature Sensor | Temperature (°C) | Operating range (°C) |
|---------------------------|-------------------------|-----------------------------|
| Incubator | 36.42 | 36.13 to 36.73 |
| Wash Carousel | 36.41 | 36.23 to 36.63 |
| Substrate | 36.53 | 36.23 to 36.63 |
| Refrigerator | 3.85 | 1.00 to 5.00 |

Pressure Sensors

Pipettor – Calibrated

Power Supply Units

| Power Supply | Measured (V) | Tolerances (V) |
|---------------------|----------------------|-----------------------|
| +24V | 24.04 V | 1.2V |
| +12V | 12.14 V | 0.4V |
| +5V | 5.03 V | 0.2V |
| -5.2V | -5.24V | N.A. |
| -12V | -12.06V | 0.4V |
| PMT | - | N.A. |

Luminometer

Calibration Verified

| | |
|-----------------------------|-----------------------------|
| High Voltage Control | 3.68V |
| High Voltage reading | -911.771 |
| LED Target Value | 108561945 |
| DCF | 1.016 |
| | (Expected 0.80-1.20) |

All the parameters are within the specified Limits.



Incubator Belt Calibrated

Done Pass

Performance Tests

System Check

| | Value | Status | Limits |
|-------------------------|--------------|---------------|---------------|
| Wash efficiency | 0.19 | Pass | -1.00 – 1.00 |
| Substrate :Washed Ratio | 0.78 | Pass | 0.00 – 1.25 |
| Substrate Ratio | 1.00 | Pass | 0.00 – 1.40 |

| System Check | Mean | Status | Limits | SD | %CV | Status | Limits |
|---------------------|-------------|---------------|--------------------|-----------|------------|---------------|---------------|
| Washed | 7740.54 | Pass | 5000 – 20000 | 99.94 | 1.61 | Pass | 0.00-12.00 |
| Clean | 6935.59 | Pass | | 50.16 | 1.23 | | |
| Substrate | 6920.96 | Pass | 5000 – 9000 | 61.24 | 2.13 | Pass | 0.00-5.00 |
| Unwashed | 5769522.00 | Pass | 4000000 - 10000000 | 61684.23 | 1.23 | Pass | 0.00-2.00 |

The equipment is certified to be in good working condition and is ready for the intended use.

Calibration validity: 12 months

Next Calibration Due: 18-12-2020

For Beckman Coulter India Pvt. Ltd. ,

Avidit Sharma
Customer Support Engineer