



# GUTH LABORATORIES, INC.

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## REPORT OF TEMPERATURE TEST FOR WET SIMULATOR

This is to certify that the instrument described below has been examined and tested by Guth Laboratories, Inc. using standards traceable to the National Institute of Standards and Technology.

### CUSTOMER INFORMATION:

Alaska Department of Public Safety  
Scientific Crime Detention Laboratory  
4805 Dr. Martin Luther King Jr. Avenue  
Anchorage, AK 99507

### INSTRUMENT INFORMATION

Date Received for Calibration: 01/22/2018      Date Tested: 01/24/2018  
WET SIMULATOR      Model Number: 10-4D      Serial Number: SD1199  
Manufacturer: Guth Laboratories, Inc.      Manufacturer Specification: 34.00 ± 0.05 °C

### RESULTS OF PHYSICAL EXAMINATION:

This instrument was received in operable condition.

CALIBRATION PROCEDURE USED: Guth Laboratories, Inc. Procedure 01-B.

### RESULTS OF CALIBRATION:

|                      |                                |                      |   |
|----------------------|--------------------------------|----------------------|---|
| 'AS FOUND'           | Date Tested: <u>01/23/2018</u> |                      |   |
| Mean Temperature:    | <u>33.998 °C</u>               | Minimum Temperature: | <u>33.992 °C</u> In Tolerance: <u>Yes</u> |
| Maximum Temperature: | <u>34.008 °C</u>               | Standard Deviation:  | <u>0.004 °C</u>                           |
| 'AS LEFT'            | Date Tested: <u>01/24/2018</u> |                      |   |
| Mean Temperature:    | <u>34.001 °C</u>               | Minimum Temperature: | <u>33.991 °C</u> In Tolerance: <u>Yes</u> |
| Maximum Temperature: | <u>34.013 °C</u>               | Standard Deviation:  | <u>0.005 °C</u>                           |

No adjustments were made to this instrument.

### CALIBRATION EQUIPMENT USED:

Temperature readings were obtained by direct measurement of simulator solution using the following system. Fluke/Hart Scientific model 1524 thermometer readout, serial number 1986075, and GE Sensing model AS125 thermistor standard, serial number 3639. This system was calibrated on November 28, 2017 by Hart Scientific, report number B7B09050. This test equipment is on a one year calibration interval and is traceable to NIST through an unbroken chain of comparisons.

Our best measurement capabilities are +/- .008 from 20 to 40°C with a measurement uncertainty(k=2) of 1.5 mK.  
Laboratory Environmental Conditions: Temperature: 22 °C ± 2 °C      Relative Humidity: Between 40% and 60%

Certified By: Carson Tamm

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