

# IN-HOUSE PROCEDURE # \_\_\_\_\_

## PROCEDURE FOR VERIFYING TEMPERATURE RECORDER

Item:

Temperature Recorder

Purpose:

This method provides instructions for checking the temperature readings of a temperature recorder.

Inspection Equipment Required:

1. Reference Thermometer – NIST traceable, readable to 0.5 °C (1 °F).

Tolerance:

Equipment shall meet the tolerances specified in the applicable test method.

Procedure:

### LIQUID BATH

1. Position the reference thermometer in a readable position in the liquid bath as close as possible to the temperature recorder probe.
2. Allow at least 5 minutes for stabilization.
3. Record the temperature of the reference thermometer and the temperature recorder reading.
4. The temperature recorder reading must be within  $\pm 1$  °C (2 °F) of the reference thermometer reading. If not, adjust the temperature recorder to within 0.5 °C (1 °F) of the reference thermometer reading and repeat the test.

### MOIST ROOMS

1. Position the reference thermometer in a readable position in air as close as possible to the temperature recorder probe.
2. Keep the door closed for at least 5 minutes prior to taking the readings.
3. Record the temperature of the reference thermometer and the temperature recorder reading.
4. The temperature recorder reading must be within  $\pm 1$  °C (2 °F) of the reference thermometer reading. If not, adjust the temperature recorder to within 0.5 °C (1 °F) of the reference thermometer reading and repeat the test.