

IN-HOUSE PROCEDURE # _____

PROCEDURE FOR HOT PLATES

Item:
Hot Plate

Purpose:
This method provides instructions for verifying the settings on hot plates.

Inspection Equipment Required:

1. A calibrated, surface contact thermometer graduated in at least 1 °C (2 °F) increments and having a range covering the temperatures to be checked.

Tolerance:
Hot plates shall be capable of maintaining a constant temperature within the ranges listed in the applicable test methods.

Procedure:

1. Turn on the hot plate to the required setting and allow at least 15 minutes for the hot plate temperature to stabilize.
2. Place the surface contact thermometer on top of the hot plate. Allow the thermometer to stabilize.
3. Read the thermometer at three consecutive intervals approximately 30 minutes apart. Record the hot plate temperature setting and each reading.
4. If a reading is outside the specified range, adjust the temperature setting of the hot plate and begin at step three after allowing the hot plate approximately 15 minutes for stabilization.
5. The hot plate is deemed acceptable if all three consecutive readings are within the specified tolerance.