



## DiCromat II & IIA Test for Probe Performance Verification with Standard Solution

NaCl, 2% (w/w) [pg 1] and NaCl, 2% w/v [pg 2]

**NaCl, 2% (w/w): 20.00 grams of Reagent Grade NaCl: 980 grams of distilled water**  
**Expected DiCromat Reading: 1.96-2.04% NaCl**

**MATERIALS** You will need the following items to perform this procedure: [1] At least 170 ml of NaCl, 2% w/w: 20.00 grams Reagent Grade NaCl (weighed on scale) mixed with 980 grams distilled water.

**Solution should be at room temperature, 19-21°C.** [2]. 2, 250 ml beakers [3]. Probe Cell Factor (CF) printed on probe cord

**IMPORTANT POINTS** 1. Always have a clean probe when using this procedure. See Cleaning Instructions.  
2. After cleaning, flush the probe with NaCl, 2% w/w solution. This ensures the probe is not contaminated during the test.

- Flow-Through Probe: flush probe with NaCl, 2% w/w solution prior to performing the test and discard.
- Dip-In Probe: Immerse probe in NaCl, 2% w/w solution prior to performing the test, remove and discard.

**INSTRUCTIONS** 1. Carefully place the probe in the 18-pin probe connector on the rear panel. Align tab on probe plug with notch on port on back of machine. Do not force.

2. Select a calibration Set-Point that is not in use by pressing the "GO TO CAL" key and follow the prompts. This step is performed with a dry probe. The Probe Test Solution is used in another step.

- Cell Factor: See label on Probe Cord
- Dilution Factor: 1
- Select Units: % Salt
- 10V Out = 0
- Adjusted?: Press No
- Meas'd: 0.00: Press Enter

3. Get your NaCl, 2% w/w solution. Press "GO TO RUN" to go to the selected Set-Point. Immerse the probe in the solution (Dip-In Probe) or pour the NaCl, 2% w/w solution into the column while blocking the flow with your finger (Flow-Through Probe). **For a weight/weight solution, the display should read approximately 1.96-2.04% at room temperature. Note the temperature displayed. It should be around 19-21°C.**

4. If the reading is low, clean the probe again using an abrasive cleanser and the probe brush and repeat this procedure. If the readings are still low, spray the receptacle (where the probe plugs into machine) with WD-40 to remove any dirt or corrosion from the contacts. If the readings are still low, contact Noramar. If the temperature reading is extremely high or low, this is a sign of a probe in need of replacement.



## DiCromat II & IIA Test for Probe Performance Verification with Standard Solution

NaCl, 2% (w/w) [pg 1] and NaCl, 2% w/v [pg 2]

**NaCl, 2% (w/v): 20.00 grams of Reagent Grade NaCl: 1,000 ml of distilled water**  
**Expected DiCromat Reading: 1.92-2.00%NaCl**

**MATERIALS** You will need the following items to perform this procedure: [1] At least 170 ml of NaCl, 2% w/v: 20.00 grams Reagent Grade NaCl (weighed on scale) mixed with 1,000 ml distilled water (measured in a graduated cylinder) **Solution should be at room temperature, 19-21°C.** [2]. 2, 250 ml beakers [3]. Probe Cell Factor (CF) printed on probe cord

**IMPORTANT POINTS** 1. Always have a clean probe when using this procedure. See Cleaning Instructions. 2. After cleaning, flush the probe with NaCl, 2% w/v solution. This ensures the probe is not contaminated during the test.

- Flow-Through Probe: flush probe with NaCl, 2% w/v solution prior to performing the test and discard.
- Dip-In Probe: Immerse probe in NaCl, 2% w/v solution prior to performing the test, remove and discard.

**INSTRUCTIONS** 1. Carefully place the probe in the 18-pin probe connector on the rear panel. Align tab on probe plug with notch on port on back of machine. Do not force.

2. Select a calibration Set-Point that is not in use by pressing the "GO TO CAL" key and follow the prompts. This step is performed with a dry probe. The Probe Test Solution is used in another step.

- Cell Factor: See label on Probe Cord
- Dilution Factor: 1
- Select Units: % Salt
- 10V Out = 0
- Adjusted?: Press No
- Meas'd: 0.00: Press Enter

3. Get your NaCl, 2% w/v solution. Press "GO TO RUN" to go to the selected Set-Point. Immerse the probe in the solution (Dip-In Probe) or pour the NaCl, 2% w/v solution into the column while blocking the flow with your finger (Flow-Through Probe). **For a weight/volume solution, the display should read approximately 1.92 - 2.00% at room temperature. Note the temperature displayed. It should be around 19-21°C.**

4. If the reading is low, clean the probe again using an abrasive cleanser and the probe brush and repeat this procedure. If the readings are still low, spray the receptacle (where the probe plugs into machine) with WD-40 to remove any dirt or corrosion from the contacts. If the readings are still low, contact Noramar. If the temperature reading is extremely high or low, this is a sign of a probe in need of replacement.