

SOP-E024

Determination of pH Using an Orion Research EA 920 Expandable ionAnalyzer

Objective: To determine the pH of an aqueous solution using an Orion Research EA 920 Expandable ionAnalyzer

Procedure:

1. Verify that the Orion Research EA 920 Expandable ionAnalyzer is in status 2, pH mode, and sample function. The instrument is located in the Hansen building, room B050.
 - 2a. Remove the pH electrode from the storage solution.
 - 2b. Rinse the electrode with Millipore filtered water and gently shake off excess.
 - 3a. Insert the electrode into the solution so that the reference junction is immersed.
 - 3b. Stir the solution while measuring to assure homogeneity.
4. When the reading has stabilized, the READY message will appear. The solution pH can then be read from the display.
 - 5a. Rinse the electrode with Millipore filtered water and gently shake off excess.
 - 5b. Return the electrode to the storage solution.

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Verified by: _____ **Date:** _____
Print Name Sign Name