

<b>Standard Operating Procedure North Carolina Standards Laboratory</b>	SOP 71 Use of Water Triple Point Cells
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Provided as a resource for laboratories performing thermometry calibrations on 23 July 2021 by the North Carolina Metrology Laboratory. Changes made to this document after this date were not authorized nor approved by North Carolina metrology staff.

Using the procedure provided in [ASTM E1750-10: Standard Guide for Use of Water Triple Point Cells](#) as a guide, the following differences from the published procedure have been established for use in the laboratory.

7.1.12. Stabilization of the cell when placed into an ice bath should be allowed for an overnight time period. While every Triple Point of Water cell may display individual behavior specific to the cell, no meaningful differences have been observed after allowing the cell to stabilize overnight and obtaining subsequent daily readings.

8.3. Aluminum bushings should be used with caution. On some occasions, the aluminum bushing will act as a catalyst to cause the liquid in the Thermometer Well (Precision Bora) to freeze.

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