



Houston Forensic Science Center

INTEROFFICE MEMO

To: Toxicology Analytical Manual v3.8

From: Dayong Lee, Ph.D., F-ABFT, Manager - Toxicology

CC: Quality Division

Date: April 10, 2023

Re: Replacement of pH Meter

The Thermo Scientific Orion pH meter went out of service on April 10, 2023. Consequently, the Mettler-Toledo SevenDirect™ SD50 pH/Ion Meter was placed into service on April 10, 2023.

pH Meter	Model Number	Serial Number	Status
Thermo Scientific Orion	STARA2140	X29761	Out of Service
Mettler-Toledo	SevenDirect™ SD50	C202370166	In Use

Additionally, the performance check requirements for the pH meter as described in Analytical Manual v3.8, section 10.8.2.1.1 will be slightly changed as indicated in red below. The changes will be in effect on April 12, 2023 and will be incorporated in the upcoming Analytical Manual v3.9.

*Measured pH shall be **at the target pH rounded to one decimal place (e.g., pH 4.0, 7.0, and 10.0)** at the reported temperature; if measured temperature falls between the listed temperatures on the pH buffer solution bottle label (e.g., 18 °C), the target pH value closer to the measured temperature (**pH 7.0 at 20 °C**) is used. Slope shall be between **95-105%**. **If Mettler-Toledo SevenDirect™ SD50 pH/Ion Meter is used, a verification shall be performed and passed.***

The pH Meter Performance Check form (LAB-048) will be updated accordingly and in effect on April 12, 2023.