



Houston Forensic Science Center

Forensic Analysis Division - Toxicology

pH Meter Performance Check

Manufacturer: Thermo Scientific

Model: STARA2140

Serial Number: X29761

Weekly Maintenance:

Refill electrode and verify expiration date

Rinse electrode

Verify electrode storage solution and expiration date

Verify pH buffer solution expiration dates

Date: 04/10/2023

Signature: [Signature]

Comments: Current pH meter not functioning. Measurements marked with "*" performed using new pH meter SN: C202370166. Verification failed after first calibration using Thermo Scientific buffers. Repeated using Mettler Toledo buffers, calibration + verification passed. -JR 4/10/23

Date	Signature	pH 4.00*	pH 7.01*	pH 10.06*	Slope (%) (90-110%)	Pass/Fail
		Temperature (°C)	Temperature (°C)	Temperature (°C)		
4/10/23	[Signature]	4.05 19.7	7.01 19.9	10.04 20.0	92.7	Fail
4/10/23	[Signature]	4.00 20.3	7.02 20.0	10.06 20.2	92.8	Pass*
4/10/23	[Signature]	4.00 20.2	7.02 20.2	10.06 20.0	99.2	Pass*
<u>BAM 4/17/2023</u>						

*Target pH at 20°C. The acceptable pH at the reported temperature is target pH ± 0.022 (3.978-4.022 for pH 4; 6.988-7.032 for pH 7; 10.038-10.082 for pH 10 at 20°C). Refer to pH buffer solution bottle label for target pH at various temperatures.

Form Complete Date/Signature: Brooke Mendenhall 4/17/2023