

Smart Notes

Complete your testing with
speed and confidence



pH Electrodes

QA

How do I keep my pH electrode working properly so it is fast, accurate, and reliable in mash, wort, and beer samples?

Proper maintenance.

Proteins, enzymes, tannins, yeast cells, and malt solids have the potential to coat a pH bulb sensor, clog a junction, foster bacterial growth, and/or contaminate the electrode fill solution. Just like an automobile, a pH electrode requires maintenance, which is an important part of your Quality Assurance program.



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Testing pH in mash, wort, and beer can lead to a great brew, but these types of samples can be tough on a pH electrode. If you want your pH electrode to remain fast, accurate, and reliable, it is important to maintain it properly according to its user manual. See the chart below for recommended care, including rinsing, storing, refilling, and cleaning. Be your own pH mechanic and keep your pH electrode running smoothly.



Daily

- Store every night in pH electrode storage solution.
- Remove from storage and rinse well with clean deionized water before use, between every measurement, and after use.
- Top-up a refillable electrode every day before use.



Bi-weekly or Monthly

- Discard old pH electrode storage solution, wash out the storage bottle/container, and fill with fresh storage solution to prevent contamination and mold.
- Drain and refill a refillable electrode with fresh fill solution. Then, soak electrode overnight in storage solution.



As Needed or Monthly

- Clean the pH electrode when response is slow or calibration or verification does not meet criteria after corrective actions.
- Use a protein-removing cleaner like Thermo Scientific™ Orion™ Cleaning Solution A (Cat. No. 900021-WA) and follow instructions.
- Try a general cleaner like Orion Cleaning Solution C, if needed.



Summary

Proper maintenance is the key to keeping your pH electrodes at their highest working performance.



Visit thermoscientific.com/orionelectrodes to choose the best electrode for your application