

pH Electrodes



PH ELECTRODE CARE AND BEST PRACTICE GUIDE



Compliance with confidence

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1.0 Effective Cleaning

- 1.1 Sensing tips should always be cleaned between samples with non-abrasive tissue.
- 1.2 Store overnight or extended sampling periods in electrode cleaning solution (product code PEB215).
- 1.3 PEB215 contains pepsin to digest protein residues and HCl to shine the glass electrode.
- 1.4 Attention to these two basic procedures will greatly improve quality and consistency of measurements.

2.0 Storage (excluding double junction electrodes)

- 2.1 pH electrodes must always be stored wet.
- 2.2 For medium term storage, soak clean electrodes in KCL storage solution (product code PEB216).
- 2.3 For long term storage, fill the soaking boot with KCL storage solution, fit over the end of the electrode and seal with Parafilm.
- 2.4 Electrodes should never be stored in any of the following liquids: deionised water, sample, solvents, hydrofluoric acid, pH buffers containing mercury- based preservatives.

3.0 Maintenance

- 3.1 Regularly inspect the glass pH sensitive membrane for cracks or chips.
- 3.2 Reference cells should be kept regularly topped up with electrolyte refill solution (product code PEB214).
- 3.3 Connectors must be kept clean and dry.
- 3.4 Regularly check calibration in the following buffer solutions:
 - pH 4 – 500 ml (product code PEB504-04)
 - pH 7 – 500 ml (product code PEB504-07)
 - pH 10 – 500 ml (product code PEB504-10)

4.0 Performance

By following this advice it is possible to significantly increase the expected life and effectiveness of an electrode.