

How to clean pH Electrodes

The pH electrode needs to be cleaned in order to prevent build up of material on the surface of the glass bulb. Material building up on the glass bulb of the electrode will cause the calibration of the electrode to be inaccurate and any subsequent reading to be inaccurate.

The pH electrode should be cleaned generally depending on usage, once a day, once a week or at least once a month to prevent clogging and to maintain accuracy. Always clean it before calibration. Immerse just the glass membrane of the electrode in the MA9016 or M10016B General cleaning solution for about 10-15 minutes.



Never wipe the glass membrane because it can lead to permanent damage! DO NOT BE ALARMED IF ANY SALT DEPOSITS ARE PRESENT. This is normal with electrodes and they will disappear when rinsed with water.

Special cleaning methods:

Oil pluggins: clean by warm water with a detergent solution for 10-20 minutes.

Protein: use 1% pepsin and 0.1M HCl solution for 1 hour.

Sulfides: use 0.1M Thiourea/HCl solution for 15-60 minutes.

Alkaline deposits: it can be removed with weak acid or vinegar.

Acidic deposits: it can be removed with 0.1 molar NaOH.

After special cleaning you should clean the electrode in General cleaning solution for 5 minutes and then recondition it by storing in MA9015 storage solution for 1-2 hours. The pH electrode should be rinsed with distilled or deionized water, but never store it in these water.

To minimize clogging and ensure a quick response time, the glass bulb of the pH electrode and the junction should be kept moist. Replace protective cap with a few drops of a MA9015 Storage Solution.

