

Handy tips to care for the pH Pen

pH probes do not last forever. They age quickly through normal use. Following these care steps will help you maintain accuracy and improve the life of the pH pen:

- › Hydrate the Bluelab pH Pen for 24 hours in KCl storage solution before first use.
- › Always keep the pH probe tip wet. If it dries, it dies!
- › Rinse the pH probe tip in clean tap water between readings for accuracy.
- › Always place the storage cap back onto the pH pen after use.
- › Add 3-5 drops of KCl storage solution to the round hole of the storage cap every week.
- › Clean, hydrate and calibrate the pH pen every 30 days. Do this when the CAL check mark disappears. This improves accuracy and reading response speed.
- › Only use plastic containers when cleaning, hydrating and calibrating.
- › Touching the glass bulb with your fingers will contaminate the glass.
- › Never plunge a cold probe into a hot liquid (or vice versa). Sudden temperature changes can permanently damage the pen.
- › Do not immerse in oils, proteins or suspended solids that will leave a coating on the glass bulb.
- › Never drop or knock the pH pen, the glass bulb will break.



The Bluelab Probe Care Kit - pH contains all the handy tools you need to clean and calibrate the Bluelab pH Pen.



Bluelab pH Probe KCl Storage Solution to store and hydrate all Bluelab pH products.



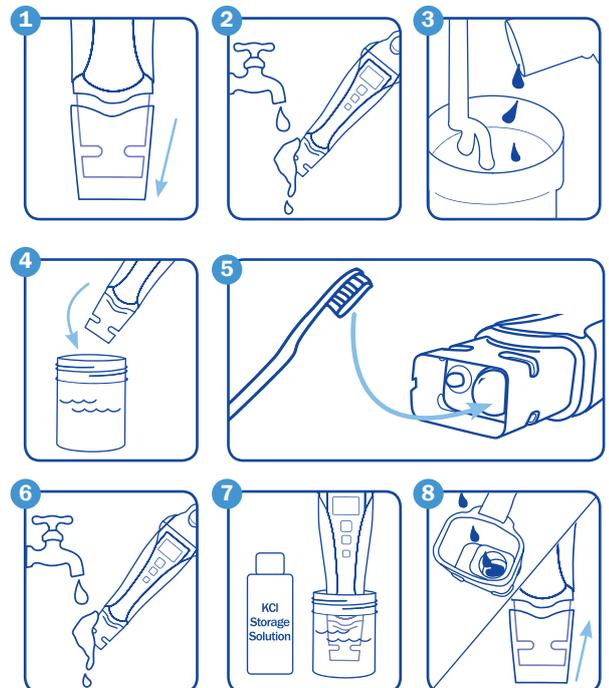
NEVER store, rinse or soak the pH pen in RO (Reverse Osmosis), Distilled or De-ionized water.

Pure water changes the chemistry in the reference, causing the probe to die.



How to clean a Bluelab pH Pen

- 1 Remove storage cap from pH pen.** Hold the body of the pen, pull the storage cap away from body.
- 2 Rinse pH probe tip under fresh tap water.** Never use RO (Reverse Osmosis), Distilled or De-ionized water.
- 3 Fill a small plastic container with clean tap water.** Add a small amount of Bluelab pH Probe Cleaner or mild detergent (dishwashing liquid).
- 4 Gently stir the probe tip in the mixture.** Ensure that you do not 'knock' the pH pen on the side of the container as this may cause damage to the probe.
- 5 If the probe tip requires removal of heavy contamination:** Gently brush around the glassware with a few drops of Bluelab pH Probe Cleaner or mild detergent (dishwashing liquid) and a soft toothbrush.
- 6 Rinse the probe tip well under fresh running tap water to remove all traces of the detergent mixture.**
- 7 Hydrate.** Add Bluelab pH Probe KCl Storage Solution to a plastic cup so it covers the probe tip. Soak for 24 hours.
- 8 Calibrate pH pen after cleaning, instructions are on the label on the back of the pen.** After calibration, add 3-5 drops of KCl Storage Solution to the round hole of the pH Pen storage cap. Place the storage cap back on to the probe.



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Bluelab Conductivity Probe Cleaning and Testing

for Bluelab Truncheon® Meter and Bluelab Conductivity/Temperature Probe

Caring for conductivity probes

Nutrient salts build up on the probe face over time. Regular cleaning removes the build up of salts and ensures accuracy of the readings. Accurate readings make it easier to monitor the strength of your nutrient solution and improve the growth of your crop. These care steps will help you maintain optimum accuracy:

- › Keep the shroud on the probe at all times, except when cleaning.
- › Avoid touching the probe face, the oils from your fingers will contaminate the probe.
- › Rinse the probe head in fresh tap water after every use to reduce nutrient build up.
- › Clean and test your conductivity probe every 30 days.
- › Clean the probe with a liquid scourer cream used in home bathrooms and kitchens such as 'Jif', 'Liquid Vim', 'Soft Scrub', 'Cif', or 'Viss'. Never use scented varieties of cleaner as they contain oils that contaminate the probe face.
- › Calibration is not required for Bluelab conductivity products. They are factory calibrated, so only require cleaning and testing.
- › The Bluelab EC pen can be calibrated, instructions are on the back of the meter. Clean the probe first!



The Bluelab Probe Care Kit - Conductivity contains all the handy tools you need to clean and test conductivity probes.

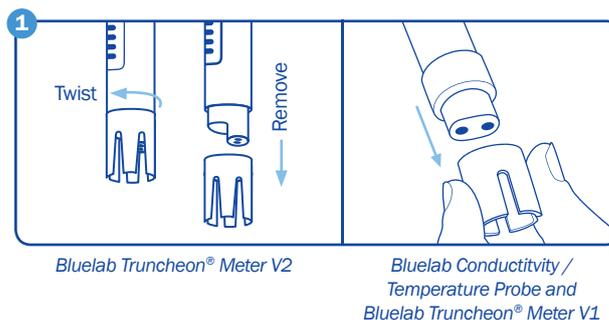


How to clean a Bluelab conductivity probe

1 Remove shroud.

For the Bluelab Truncheon® Meter (V2): Twist the shroud 90 degrees and then remove the shroud.

For all Bluelab Conductivity/Temperature Probes and Bluelab Truncheon® Meter (V1): Warm the shroud in your hand for a few seconds to help with removal. Hold the body and pull the shroud off.



2 Clean the conductivity probe face.

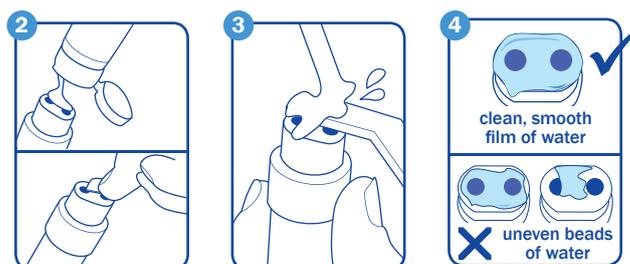
Place one or two drops of Bluelab Conductivity Probe Cleaner onto the probe face and rub with the Bluelab Chamois or your finger firmly and vigorously.

3 Rinse the conductivity probe face.

Rinse off all traces of cleaner under running tap water while scrubbing the probe face with the other side of the Bluelab Chamois or the same finger.

4 Check that the water forms a smooth film on the probe face, without any beads of water.

If you can see beads of water, repeat steps 2 and 3.

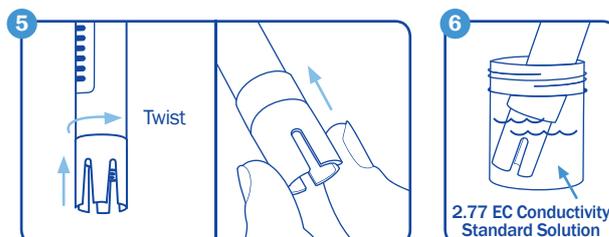


5 Refit the shroud and test in 2.77 EC Conductivity Standard Solution to ensure cleaning was adequate.

Place the probe tip into the solution, wait for the reading to stabilize to a constant value. This can take a few minutes while the probe adjusts to the temperature of the solution.

6 Repeat the cleaning process if the reading given is not within 0.1 EC/1 CF of 2.8EC

NOTE: The shroud MUST be left on the probe when taking readings.



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