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Apera Instruments AI1107

Apera Instruments 3M KCL Storage Soaking Solution

Model: AI1107

Brand: Apera Instruments

PRODUCT OVERVIEW

The Apera Instruments 3M KCL Storage Solution is specifically formulated with high-purity chemicals to maintain and extend the operational lifespan of pH and ORP electrodes. This solution is essential for proper electrode care, preventing sensitivity and accuracy degradation that can occur when electrodes are stored dry.

Key features include:

- Designed for conditioning and extending the life of your probes.
- Made with reagent grade chemicals to ensure optimal performance of your pH probes.
- Double-sealed packaging to ensure freshness and prevent leakage.
- Expiration date clearly specified on the bottle for proper inventory management.

SETUP AND PREPARATION

Before storing your pH or ORP electrode, ensure it is thoroughly cleaned according to your electrode's specific cleaning instructions. This removes any contaminants that could affect the electrode's performance or the storage solution's integrity.

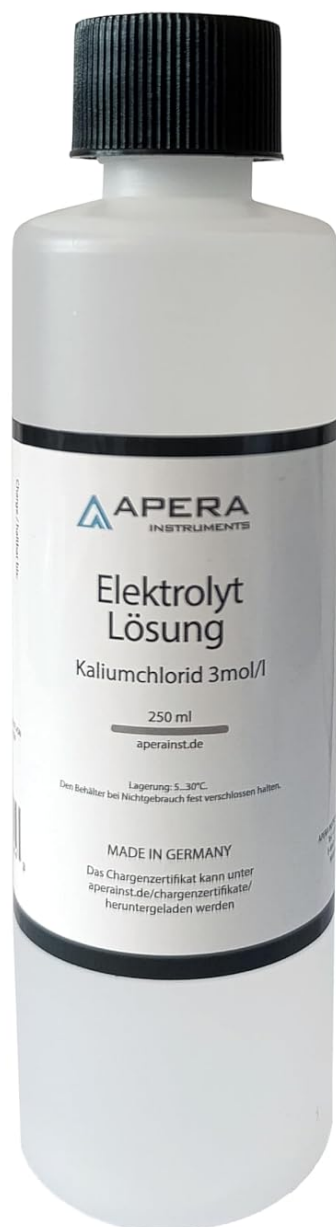


Image: A white plastic bottle containing Apera Instruments 3M KCL Storage Solution. The label on the bottle is primarily in German, indicating "Elektrolyt Lösung" (Electrolyte Solution) and "Kaliumchlorid 3mol/l" (Potassium Chloride 3mol/l), with a volume of "250 ml". The Apera Instruments logo is visible at the top of the label. The bottle has a black ribbed screw cap.

OPERATING INSTRUCTIONS

Routine Electrode Storage

To maintain optimal performance and extend the life of your pH or ORP electrode, it is highly recommended to store the electrode in Apera Instruments 3M KCL Storage Solution when not in use. This prevents the electrode's sensitive glass bulb and reference junction from drying out.

1. Ensure the electrode is clean.
2. Remove the protective cap from the electrode.
3. Fill the electrode's storage cap or a small container with a sufficient amount of 3M KCL storage solution to fully immerse the electrode's sensing bulb and reference junction.
4. Place the electrode into the solution, ensuring the sensing part is completely submerged.
5. Secure the electrode in the solution to prevent spillage and evaporation.

Restoring Dry or Sluggish Electrodes

If your pH or ORP electrode has been stored dry, or if it exhibits sluggish response or unstable readings, its sensitivity and accuracy may be temporarily compromised. The 3M KCL storage solution can help restore its performance.

1. Clean the electrode thoroughly.
2. Immerse the electrode's sensing bulb and reference junction in Apera Instruments 3M KCL Storage Solution.
3. Allow the electrode to soak in the solution for a minimum of 1 hour, or preferably overnight, to rehydrate the glass membrane and re-establish the reference junction potential.
4. After soaking, rinse the electrode with distilled water and perform a calibration before use.

MAINTENANCE AND STORAGE OF SOLUTION

To ensure the longevity and effectiveness of your Apera Instruments 3M KCL Storage Solution, follow these guidelines:

- **Storage Temperature:** Store the solution between 5°C and 30°C (41°F and 86°F). Avoid extreme temperatures.
- **Sealing:** Always keep the container tightly closed when not in use to prevent evaporation and contamination. The double-sealed packaging helps maintain freshness.
- **Expiration Date:** Refer to the expiration date printed on the bottle. Do not use the solution past its expiration date, as its chemical properties may degrade, affecting its effectiveness.
- **Contamination:** Avoid introducing foreign substances into the solution. If the solution appears cloudy or discolored, it may be contaminated and should be replaced.

TROUBLESHOOTING

This section addresses common issues related to electrode performance and how the storage solution can help.

Problem	Possible Cause	Solution
Electrode shows unstable readings or slow response.	Electrode membrane is dry or dehydrated.	Soak the electrode in Apera Instruments 3M KCL Storage Solution for at least 1 hour, or overnight. Ensure the sensing bulb is fully submerged.
Electrode requires frequent calibration.	Improper storage leading to degradation of electrode performance.	Always store the electrode in 3M KCL storage solution when not in use. If performance has degraded, try reconditioning by soaking.
Solution appears cloudy or contaminated.	Exposure to contaminants or expired solution.	Discard the contaminated or expired solution and replace with fresh Apera Instruments 3M KCL Storage Solution.

SPECIFICATIONS

Attribute	Detail
Product Name	3M KCL Storage Soaking Solution
Model Number	AI1107
Brand	Apera Instruments
Item Volume	8 Fluid Ounces (approx. 236 ml)
KCL Concentration	3M (3 mol/L)
Item Form	Liquid

Attribute	Detail
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Package Information	Bottle
Product Dimensions	6.3 x 1.97 x 2.36 inches
Item Weight	9 Ounces
Country of Origin	USA

WARRANTY INFORMATION

Specific warranty details for the Apera Instruments 3M KCL Storage Soaking Solution are not provided in this manual. For comprehensive warranty information, please refer to the official Apera Instruments website or contact their customer support directly.

SUPPORT AND CONTACT

For further assistance, technical support, or to download batch certificates for your solution, please visit the official Apera Instruments website:

www.aperainst.com

(Note: The image indicates a German website for certificates: aperainst.de/chargenzertifikate/. Please refer to your region's specific support channels.)