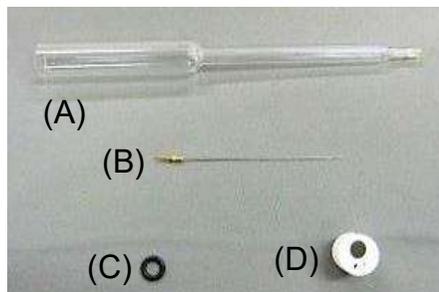


013375 Double junction chamber kit

1. Contents

- (A) Double junction chamber
- (B) Platinum counter electrode 5.7 cm
- (C) O-ring
- (D) PTFE Cap for double junction chamber



2. How to use

This product stabilizes the potential of the reversible hydrogen electrode (RHE) and also allows RHE to be used in non-acidic solutions.

【Option】

013597 RHEK Reversible hydrogen electrode kit

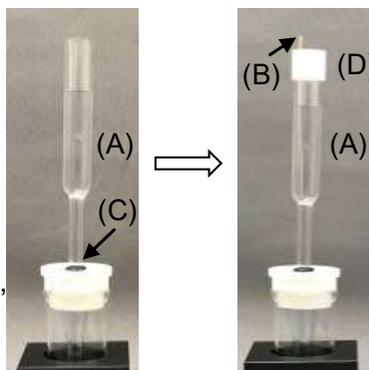


RHEK Reversible hydrogen electrode kit

2-1. Set an O-ring(C) on a double junction chamber(A). Stand the double junction chamber(A) and inject the acidic solution gently along inside wall.

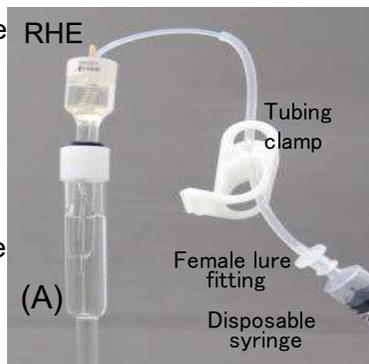
The suitable liquid volume for the double junction chamber(A) is 4.5 mL. It is recommended to use 1.2 M HCl as the internal solution, where the activity of hydrogen ion is approximately equal to 1.

If there are air bubbles around the porous glass, lightly flick the double junction chamber(A) to remove the bubbles.



2-2. Attach a PTFE Cap(D) to the double junction chamber(A), set a Pt counter electrode(B) to the PTFE Cap(D).

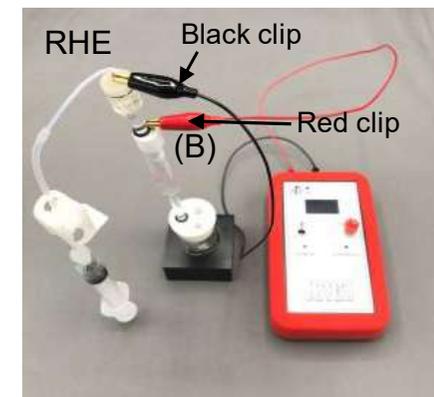
2-3. Set RHEK Reversible hydrogen electrode kit (sold separately) to the double junction chamber(A). With a tubing clamp open, use a disposable syringe to suck the acidic solution from RHE until it reaches the disposable syringe. Make sure that there are no air bubbles between the female lure fitting and then tighten the tubing clamp.



2-4. Prepare an H2G1 Portable Hydrogen Generator and connect a black clip to the RHE and a red clip to the Pt counter electrode(B). Filling time is approximately 4 minutes with 1.2 M HCl.

For using a potentiostat, please refer to following website for details.

<https://www.als-japan.com/RHE.html>.



【Related product】

013699 H2G1 Portable Hydrogen Generator

2-5. Transfer the double junction chamber(A) to the actual measurement solution.



【CAUTION】

- Do not dry a used double junction chamber(A) in the air. The porous glass tip (liquid junction) of the double junction chamber(A) will be damaged (block, crack) by the electrolyte salt deposition due to dry. After using, clean the inside of the double junction chamber(A) thoroughly and soak it in pure water for storage.
- (Please refer to <https://www.als-japan.com/1722.html>)
- The porous glass of the tip may be discolored after use, which is due to the nature of the glass. Hence, we cannot respond to exchange.
- The double junction chamber(A) cannot be used with glass-corrosive acid and base solutions.
- We cannot guarantee any problems caused by use contrary to the above precautions.

BAS Inc.

<https://www.als-japan.com>

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