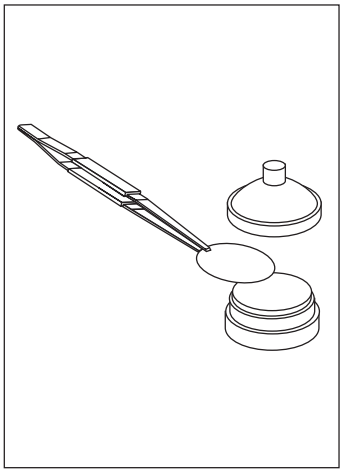
Operating Instructions for

# Patch Test Kit

Millipore Cat. No. XX65 047 30

## 1 Prepare Filter for Rinse Solvent

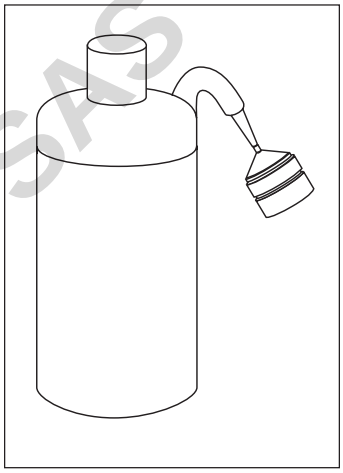
Unscrew the two sections of the 25 mm filter holder, and use forceps to center a 25 mm white filter disc on the perforated plastic support in the lower section of the filter holder. Place a stainless steel screen on top of the filter, and reassemble the holder.



## 2 Prepare Filtered Solvent Dispenser

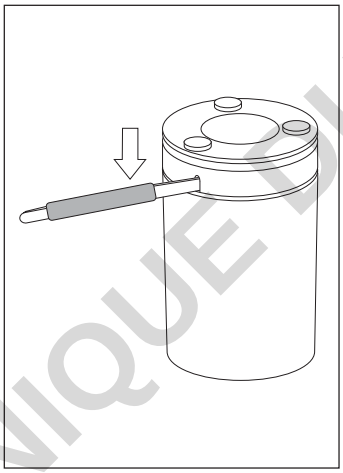
Remove the plastic cap from the spout of the wash bottle and twist a 25 mm filter holder onto the spout. Fill the bottle with the proper solvent for the hydraulic fluid to be tested, and close the bottle with a **vented screw cap.**

Use the spout cap and the solid screw cap to prevent spillage when storing the filled bottle.



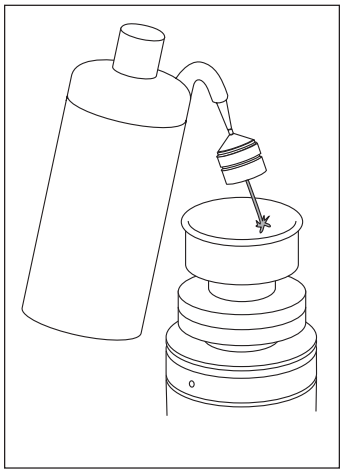
## 3 Assemble Test Filtration Apparatus

Remove the 47 mm filter holder assembly from the vacuum filtration flask if necessary, using the butt end of the forceps to pry against the flask rim at the cutout slot. Invert the holder assembly and install it on the flask, with the funnel up and the seating holder base flange resting evenly against the flask rim.



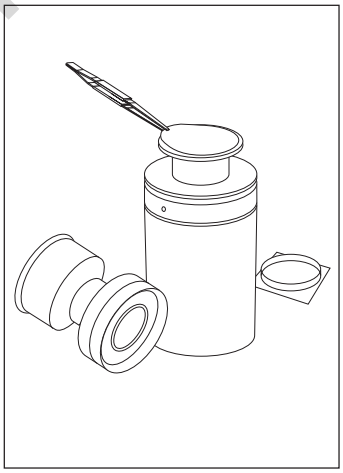
## 4 Wash Down Inside of Funnel

Close the vent hole in the solvent dispenser cap by covering it with a finger tip, and squeeze the bottle to direct a jet of filtered solvent against all the inner surfaces of the funnel. Use enough solvent to carry all the contaminants through the filter holder screen and into the flask.



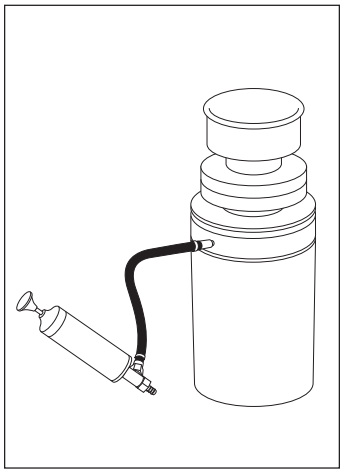
## 5 Install the Test Filter

Remove the funnel from the test filter holder by turning the knurled ring from right to left until free, then lifting. With forceps, center a 47 mm white test filter disc on the wire mesh support screen. Replace the funnel and re-tighten the knurled ring to seal the filter in place.



## 6 Attach Syringe Vacuum Pump

The free end of the flexible tube attached to the syringe is fitted with a small nylon adapter. Insert the adapter firmly into the small hole on the side of the filter holder base. The tube and adapter are normally left attached to the syringe for storage, but can be removed for cleaning.

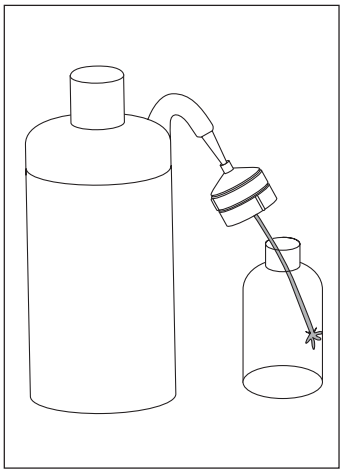


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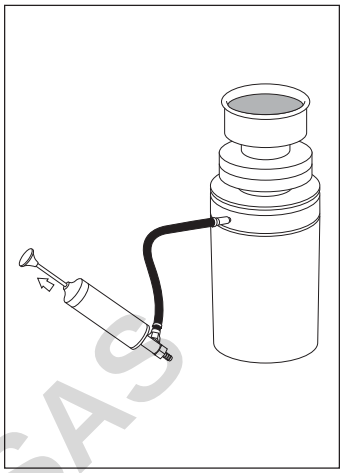
## 7 Rinse Sample Bottle and Collect Sample

Rinse out the inside of a clear plastic bottle with filtered solvent, then discard the used solvent. Fill the sample bottle to the shoulder point with the test fluid and cap securely.



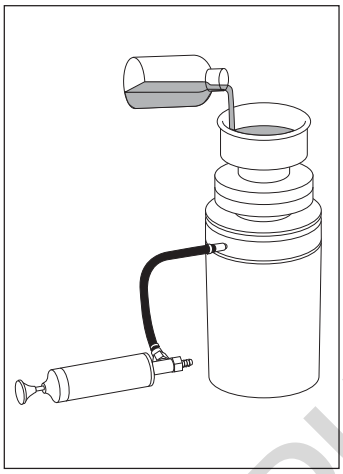
## 8 Filter Test Sample

Shake the sample bottle. Empty the contents into the funnel, pouring against the funnel walls to distribute the fluid evenly over the surface of the filter. Then, draw vacuum inside the flask by working the syringe plunger until the level of fluid in the funnel begins to drop, indicating the start of filtration.



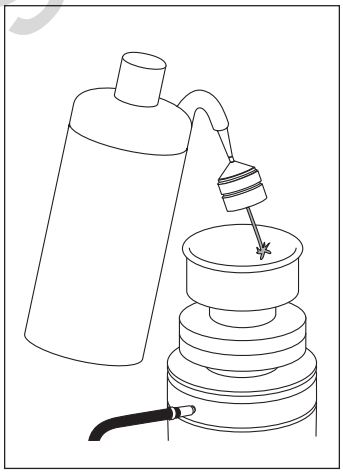
## 9 Rinse Contamination from Sample Bottle

Fill the test sample bottle one third full with filtered solvent, shake thoroughly, and pour the solvent into the funnel as soon as the level of fluid in the funnel permits. Operate the syringe again to sustain filtration if necessary **but do not allow the level of fluid to drop to the filter surface before Step 11 below.**



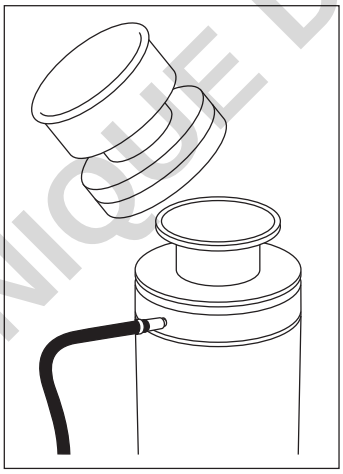
## 10 Rinse Contamination from Funnel Walls

When the sample level in the funnel drops to the narrow neck of the funnel, wash down the inner surfaces of the funnel with a stream from the filtered solvent dispenser. **Do not let the solvent stream directly strike the test filter.**



## 11 Check Rinse-Through of Sample Fluid

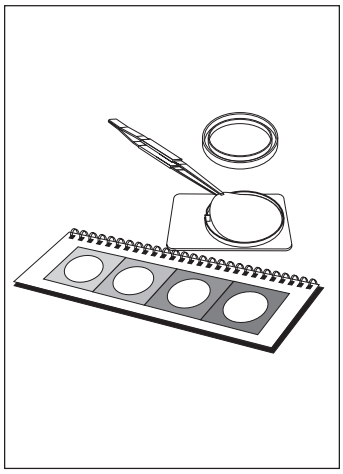
Continue filtration until all the fluid has passed through the filter, then remove the funnel, leaving the filter in place, and inspect the filter surface. If the central area of the filter is pink, indicating insufficient rinsing, replace the funnel and aim a stream of filtered solvent against the funnel walls until fluid reaches the top of the funnel's neck. Work the syringe again to draw all the fluid through the filter.



## 12 Check Test Filter Against Standard

Remove the funnel, lift off the test filter with forceps and place it face-up in an uncovered PetriSlide™ device. Let the filter dry completely in still air. Replace the PetriSlide cover and compare the filter's appearance against the standard to determine the contaminant level.

NOTE: If trichloroethane or dry cleaning fluid is used as a solvent, dry the filter before placing it in the PetriSlide dish to avoid clouding the plastic.



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# Technical Assistance

For more information, contact the Millipore office nearest you or visit the tech service page on our web site at www.millipore.com/techservice. In the U.S., call **1-800-MILLIPORE** (1-800-645-5476). Outside the U.S., see your Millipore catalogue for the phone number of the office nearest you or go to our web site at www.millipore.com/offices for up-to-date worldwide contact information. The Millipore web site also contains Frequently Asked Questions (FAQs) and information about ordering this product as well as its accessories and replacement parts.

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LOMP TK0 0U Rev. B, 07/04

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