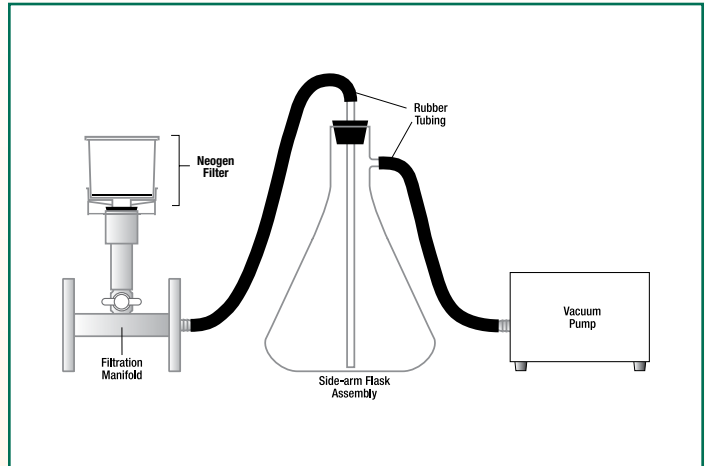


# Neogen Filter Assay

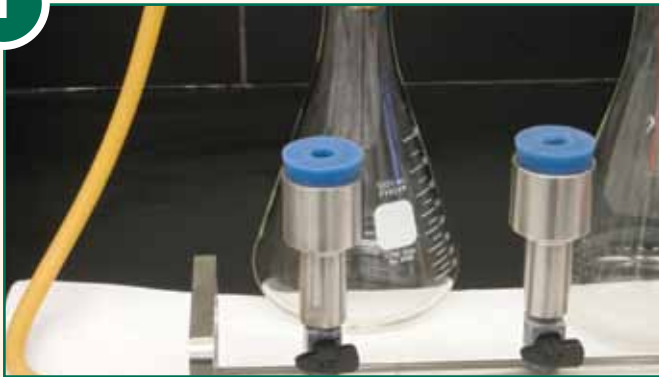
## *Set-up Procedure*

### Materials required but not provided

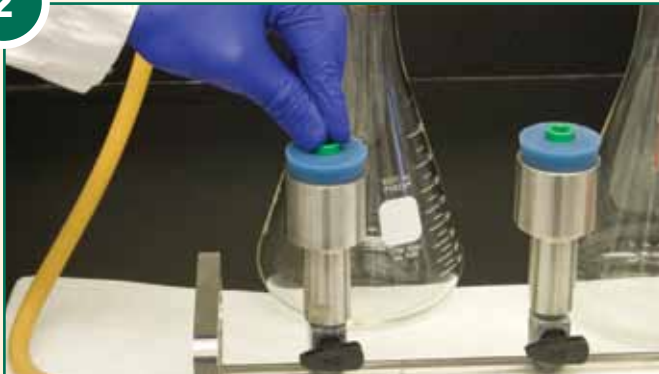
- Vacuum source
- Vacuum manifold or filtration flask
- Rubber stopper for the manifold/flask with a 3/8 inch (9.5 mm) opening to accept funnel adapter



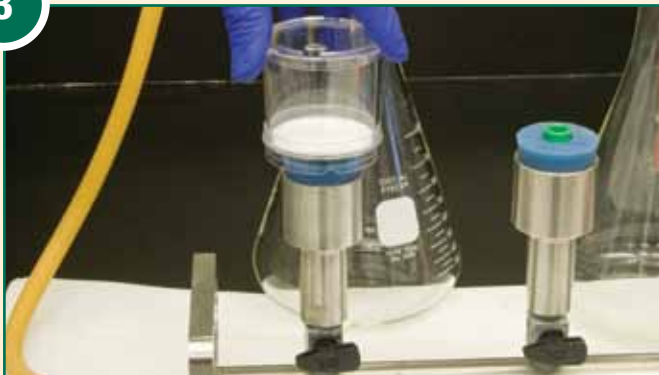
1



2



3



**Step 1:** Assemble the manifold or filtration flask that will supply the vacuum source, complete with rubber stopper.

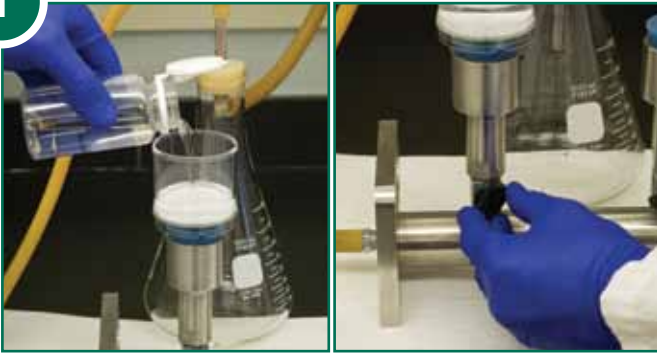
**Step 2:** Using a gentle twisting motion, secure the funnel adapter into the rubber stopper.

**Step 3:** Using the same gentle twisting motion, secure the Neogen Filter onto the funnel adapter.

# Neogen Filter Assay

## *Test Procedure*

1



**Step 1:** Remove Neogen Filter cover and carefully pour the sample onto the filter. Apply vacuum just long enough to pull the sample through the filter (if using a manifold, open only one valve at a time).

2



**Step 2 (optional):** Rinse the inside walls of the filter funnel with approximately 20 mL of sterile buffered solution. Apply vacuum just long enough to pull the solution through the filter, and turn off vacuum.

3



**Step 3:** Briefly remove the Neogen Filter and its funnel adapter from the rubber stopper to release any remaining vacuum pressure, and then re-secure into the stopper.

4



**Step 4:** Add the culture media onto the top of the filter. When doing so, be careful not to touch the filter with the tip of the ampoule.

**Step 5:** Very briefly apply vacuum so that the media does not pool on top of the filter, and it is visible underneath the filter.

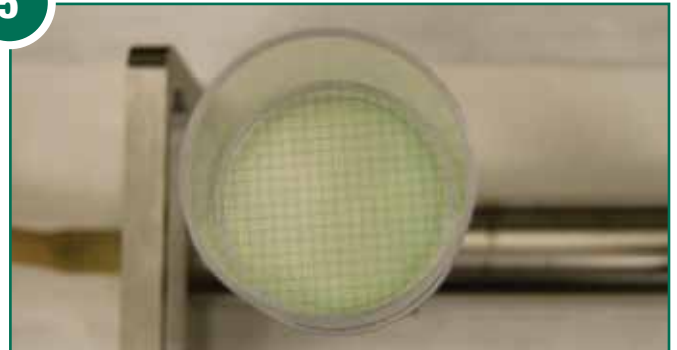
(Note: The media has been soaked correctly into the filter if there is a small pocket of air around the bottom port. The filter should be moist, but not oversaturated or dry.)

**Step 6:** Remove and appropriately discard the Neogen Filter plastic funnel. Place the Neogen Filter cover over the filter/base assembly converting the unit into a Petri dish for sample incubation.

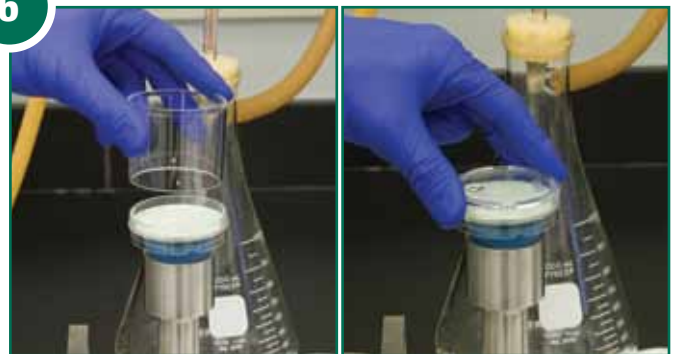
**Step 7:** Remove Neogen Filter from the funnel adapter, and place a plug on the open bottom port.

**Step 8:** Place the Neogen Filter into the incubator inverted so that the cover is on the bottom, and incubate for the appropriate time and temperature for the utilized media.

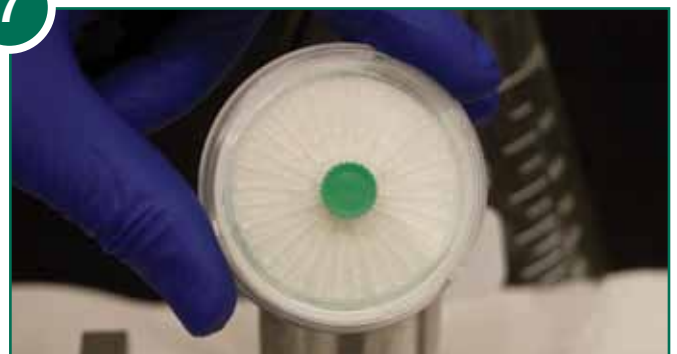
5



6



7



8



Dispose of test materials in accordance with all applicable local, state and federal regulations.

# Product List



Product Name/Description	Item No.	Package
<b>Neogen Filter "White"</b>	<b>6550</b>	<b>Box of 50</b>
100 mL sterile disposable membrane filtration unit used for testing liquid samples. Membrane is white with dark gridlines, 56 mm in diameter with a pore size of 0.45 µm.		
<b>Neogen Filter "Black"</b>	<b>6555</b>	<b>Box of 50</b>
100 mL sterile disposable membrane filtration unit used for testing liquid samples. Membrane is black with light gridlines, 56 mm in diameter with a pore size of 0.45 µm.		
<b>m-Endo Broth, 2 mL</b>	<b>6500</b>	<b>Box of 50</b>
Used for enumerating coliforms and recommended by the American Public Health Association for testing water, wastewater, and foods following the U.S. EPA water test method. Membrane filters are examined for the presence of red colonies. All red colonies that have a metallic sheen are coliforms.		
<b>m-Green Yeast and Fungi Broth, 2 mL</b>	<b>6505</b>	<b>Box of 50</b>
Used for the detection of yeast and fungi in beverages. All colonies growing on the surface of the membrane should be counted. Mold colonies generally appear white with a green tint and are filamentous, while the yeast colonies are cream colored and opaque.		
<b>MI Broth, 2 mL</b>	<b>6510</b>	<b>Box of 50</b>
Developed and approved by the U.S. EPA for the detection of Total Coliforms and <i>E. coli</i> in drinking water. All colonies that appear blue on the surface of the membrane under normal/ambient light are <i>E. coli</i> . Exposed to long wave ultraviolet light (366 nm), all fluorescent colonies should be counted. The blue/green colonies that fluoresce or have fluorescent edges are <i>E. coli</i> and the blue/white colonies that fluoresce are Total Coliforms. Add any blue, non-fluorescent colonies to the Total Coliform Count.		
<b>m-TGE Broth, 2 mL</b>	<b>6515</b>	<b>Box of 50</b>
Used for the determination of bacterial counts and specified by the American Public Health Association for the heterotrophic plate count procedure in testing bottled water. All colonies that grow on the surface of the membrane are counted and recorded.		
<b>Orange Serum Broth, 2 mL</b>	<b>6525</b>	<b>Box of 50</b>
Used for and recommended by the American Public Health Association for the cultivation of aciduric microorganisms associated with spoilage in fruit beverages. All colonies that grow on the surface of the membrane are counted and recorded.		
<b>PRY Broth, 2 mL</b>	<b>6520</b>	<b>Box of 50</b>
PRY Broth is used for the detection of preservative resistant yeast in water and beverages. Membrane filters are examined for the presence of spoilage organisms that appear off-white and vary in size depending upon length of incubation. These small colonies are viewed best on a black membrane.		

**Neogen offers three easy ways to order (USA/Canada):**

Call: **800/234-5333** or **517/372-9200** Fax: **517/372-1244** or

Order Online: **www.neogen.com**



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