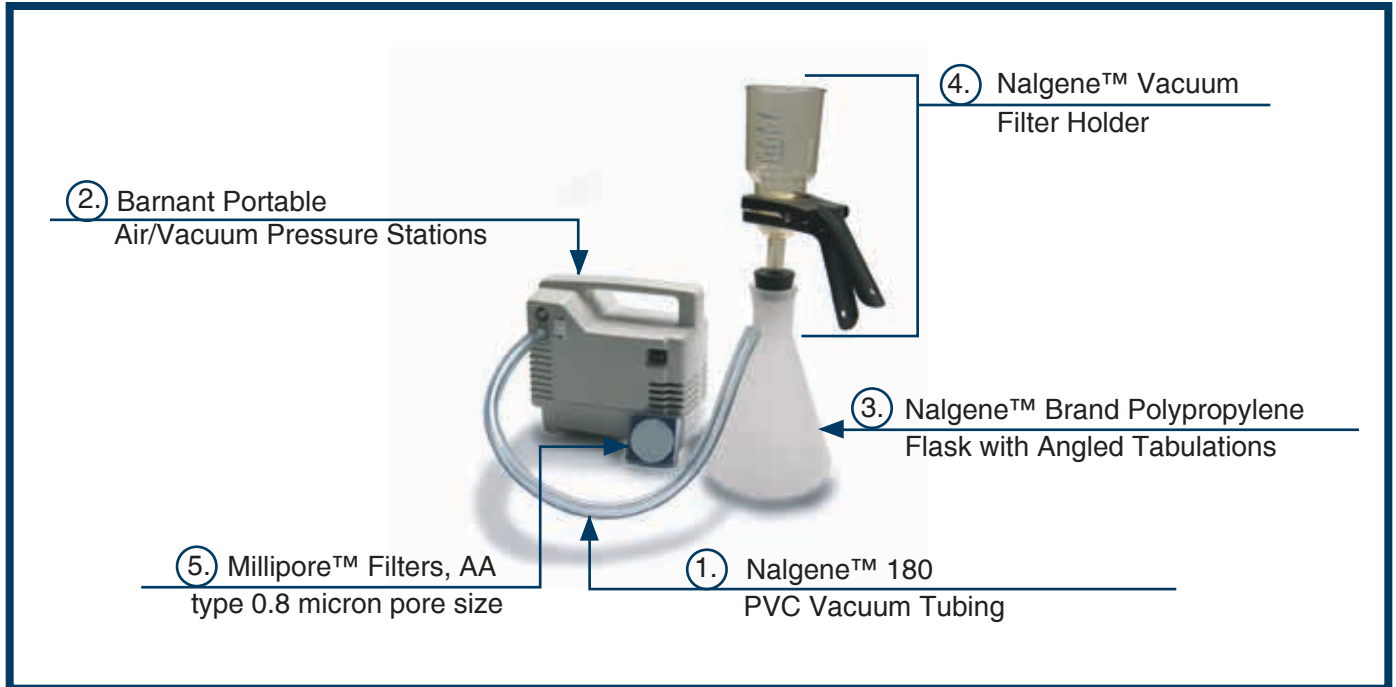


## Simplified Suspended Solids Test for Sodium Hypochlorite Solutions



### Field Bleach Vacuum Test Kit 935-05586

Item	Part No.	Qty.	Description
1	135-05581-001	1	Nalgene™ 180 PVC Vacuum Tubing
2	135-05582-001	1	Barnant Portable Air/Vacuum Pressure Stations
3	135-05583-001	1	Nalgene™ Brand Polypropylene Flask with Angled Tabulation
4	135-05584-001	1	Nalgene™ Vacuum Filter Holder
5	391-02635-001	1	Millipore™ Filters, AAWP type, 0.8 micron pore size
6	135-05580-001	1	Pelican Case



## Scope

This procedure describes how to use a filter system as an aid to easily determine the clarity of sodium hypochlorite solutions. The bleach filter equipment is inexpensive and is designed for use at the customer's site. For laboratory-quality equipment and procedures to achieve accurate and repeatable results, please refer to the "Suspended Solids Quality Test for Bleach Using Vacuum Filtration". This document can be found in the Powell Information Center in the Bleach Filter System category on-line at [www.powellfab.com](http://www.powellfab.com).

## Apparatus

1. Nalgene™ 180 PVC Vacuum Tubing
2. Barnant Portable Air/Vacuum Pressure Stations
3. Nalgene™ Brand Polypropylene Flask with Angled Tabulation
4. Nalgene™ Vacuum Filter Holder
5. Millipore™ Filters, AAWP type, 0.8 micron pore size
6. 1000 ml graduated cylinders or beakers

## Procedure

**Note:** All apparatus should be kept clean and dust free.

1. Assemble filter. Use forceps to place one filter on plastic support base. Put filter funnel and clamp in place.
2. Shake sample bottle. Fill graduated cylinder or beaker to the 1000 ml mark with solution.
3. Start vacuum.
4. Slowly pour the 1000 ml into the top of the vacuum holder. When sample has filtered through completely, record the time of filter.

**Note:** Bleach that has not been filtered with submicron filtration will take approximately 6 to 8 times longer than filtered product. Typically 1000 ml of high clarity bleach will take less than three minutes at 20" Hg vacuum.

After filtration, the filter paper should be near white with virtually no retained particles. Discolored filtered paper typically indicates the presences of iron.



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