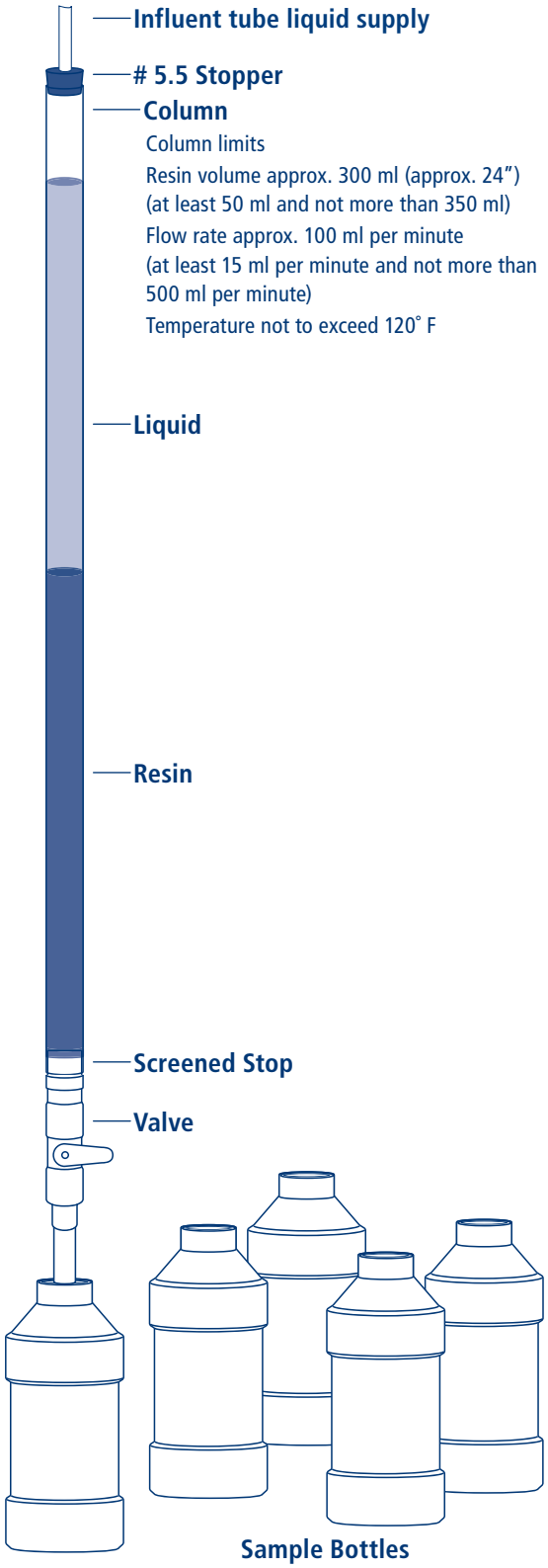
RESIN TECH INC
INNOVATIONS IN ION EXCHANGE

COLUMN TEST KIT

GENERAL GUIDELINES AND ABBREVIATED INSTRUCTIONS

Step 1 - Set Up

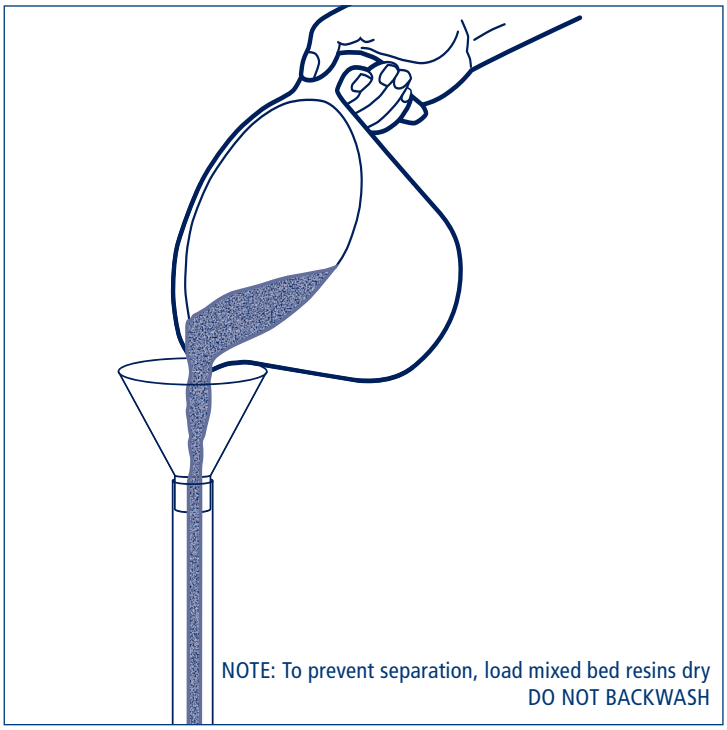
Set up the column as shown in the diagram below. It is sometimes more convenient to pull the liquid through the column rather than push it through.



Sample Bottles

Step 2 - Loading

Load the resin as a slurry by first wetting with DI water and then pouring into the column through a funnel. This procedure minimizes the formation of air bubbles in the resin bed.



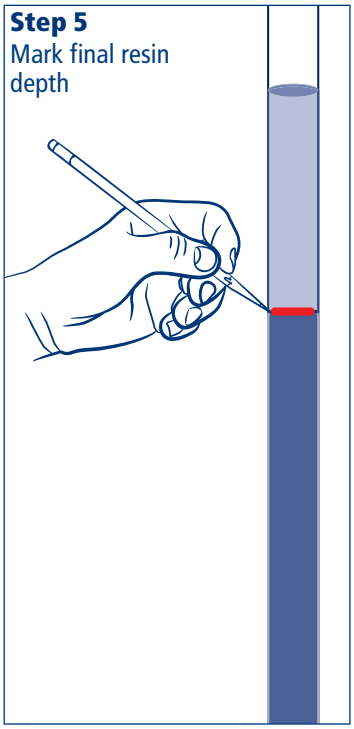
NOTE: To prevent separation, load mixed bed resins dry
DO NOT BACKWASH

Step 3 - Backwashing

Backwash the resin with DI water to classify the bed and remove any leachables that may have accumulated during storage. Rinse with DI Water and then drain to slightly above the resin bed. Mark the resin height. Leave the resin covered with DI water until ready to start.

Step 4
Backwash media

Step 5
Mark final resin depth



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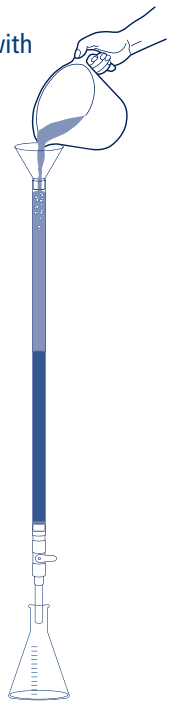
Step 5 & 6 - Fill Column and Establish Flow

Fill test column with solution and establish flow rate. Begin flowing inlet solution through the column and collecting the effluent. It is suggested that the effluent be portioned into at least 10 successive samples so that the exhaustion curve can be determined.

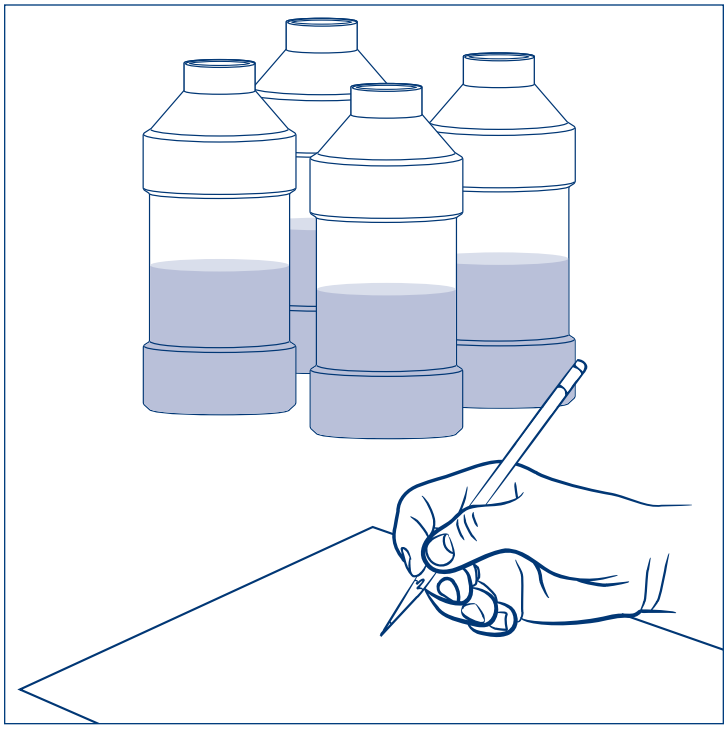
Step 7 - Analysis

Analyze the samples for the presence or absence of any contaminants of interest. Don't forget to analyze the inlet solution as well.

Step 5
Fill column with test solution



Step 6
Establish solution flow rate



Sample Data Collection Form

	Units	1	2	3	4	5	6	7	8	9	10
Date											
Time											
Conductivity											
pH											
Flow Rate											
Ion 1											
Ion 2											
Ion 3											
Ion 4											

Test Notes: