

DOC326 97 00111

Test preparation

CAUTION: A Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

- · Hold the dropper vertically above the sample. Do not let the dropper touch the bottle during the titration.
- · Rinse the tubes and bottles with sample before the test. Rinse the tubes and bottles with deionized water after the test.
- To record the test result as gpg (grains per gallon), divide the mg/L test result by 17.1
- To verify the test accuracy, use a standard solution as the sample.

Test procedure—Hardness (0-400 mg/L as CaCO₃)



1. Fill the measuring tube with sample.



2. Pour the sample into the mixing bottle.



3. Add one UniVer 4. Add the 3 Hardness Reagent Powder Pillow. Turn the bottle left and right drop. Count the to mix. A pink color drops until the develops.



Hardness 3 Titrant total number of Solution by drops. Mix after each color changes from pink to blue.



5. Multiply the drops by 20 to get the result in mg/L.

Replacement items

NOTE: Product and Article numbers may vary for some selling regions. Contact the appropriate distributor or refer to the company website for contact information.

Description	Unit	Item no.
UniVer® 3 Hardness Reagent Powder Pillows	100/pkg	96299
EDTA Standard Solution, 0.035 N	100 mL MDB	2349932
Bottle, square, glass, 29 mL	6/pkg	43906
Measuring tube, plastic, 5.83 mL	each	43800

Optional items

Description	Unit	Item no.	
Standard solution, hardness, 340 mg/L (20 gpg) as $CaCO_3$ and iron (2 mg/L)	500 mL	47949	
Water, deionized	500 mL	27249	