

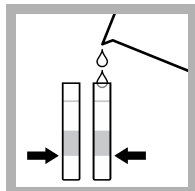


### Test preparation

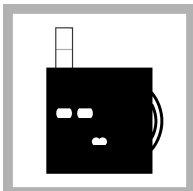
**CAUTION:** ⚠ *Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.*

- Put the color disc on the center pin in the color comparator box (numbers to the front).
- Use sunlight or a lamp as a light source to find the color match with the color comparator box.
- Rinse the tubes with sample before the test. Rinse the tubes with deionized water after the test.
- If the color match is between two segments, use the value that is in the middle of the two segments.
- If the color disc becomes wet internally, pull apart the flat plastic sides to open the color disc. Remove the thin inner disc. Dry all parts with a soft cloth. Assemble when fully dry.
- To verify the test accuracy, use a buffer solution as the sample.
- More than 1 mg/L chlorine interferes with the test. To remove chlorine from the sample, add 1 drop of 0.1 N sodium thiosulfate solution to 25 mL of sample and mix. Use this dechlorinated sample in the test procedure. The sodium thiosulfate removes a maximum of 10 mg/L chlorine from the sample.

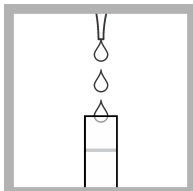
### Test procedure—pH (7.4–9.6 pH units)



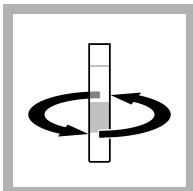
1. Fill two tubes to the first line (5 mL) with sample.



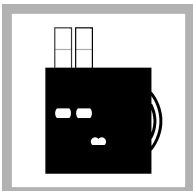
2. Put one tube into the left opening of the color comparator box.



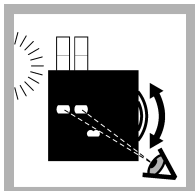
3. Add 6 drops of thymol blue pH indicator solution to the second tube.



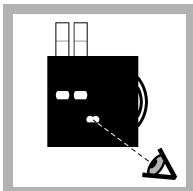
4. Swirl to mix.



5. Put the second tube into the color comparator box.



6. Hold the color comparator box in front of a light source. Turn the color disc to find the color match.



7. Read the result in pH units in the scale window.

### Replacement items

Description	Unit	Item no.
Thymol blue pH indicator solution	100 mL MDB	25732
Color disc, pH, thymol blue, 7.4–9.6 pH units	each	9263500
Color comparator box	each	173200
Plastic viewing tubes, 18 mm, with caps	4/pkg	4660004

### Optional items

Description	Unit	Item no.
pH 7.0 buffer solution, colorless	500 mL	1222249
Caps for plastic viewing tubes (4660004)	4/pkg	4660014
Water, deionized	500 mL	27249
Glass viewing tubes, glass, 18 mm	6/pkg	173006
Sodium thiosulfate, 0.1 N	100 mL MDB	32332
Stoppers for 18-mm glass tubes and AccuVac Ampuls	6/pkg	173106

