



Copper Test Kit

CU-5 (1421300)

DOC326.97.00056

Test preparation

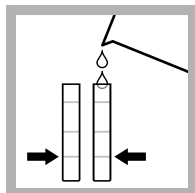
CAUTION: ⚠ *Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.*

- 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.
- Undissolved reagent does not have an effect on test accuracy.

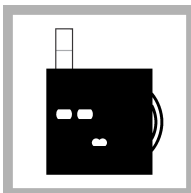
Interferences

- Cyanide—More than 2 mg/L prevents full color development. To remove the interference, add 3 drops of formaldehyde after the 2-minute reaction time. Wait 3 minutes, then continue the test.
- Hardness—High hardness levels in samples such as seawater cause a white precipitate to develop. To remove the interference, add 4 drops of Rochelle Salt Reagent to the sample before the reagent is added.

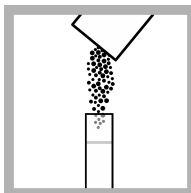
Test procedure—Copper (0–4 mg/L Cu)



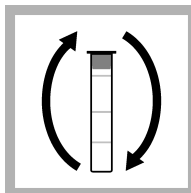
1. Fill two tubes to the first line (5 mL) with sample.



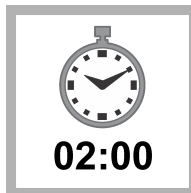
2. Put one tube into the left opening of the color comparator box.



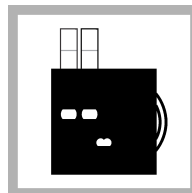
3. Add one CuVer 1 Copper Reagent Powder Pillow to the second tube.



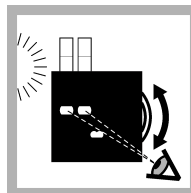
4. Put a stopper on the tube. Invert to mix. A purple color develops.



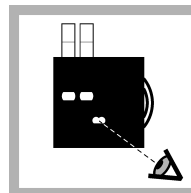
5. Wait 2 minutes.



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



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



8. Read the result in mg/L in the scale window.

Replacement items

Description	Unit	Item no.
CuVer® 1 Copper Reagent Powder Pillows, 5 mL	100/pkg	1421199
Color disc, copper, 0–4 mg/L	each	9263300
Color comparator box	each	173200
Glass viewing tubes, glass, 18 mm	6/pkg	173006
Stoppers for 18-mm glass tubes and AccuVac Ampuls	6/pkg	173106

Optional items

Description	Unit	Item no.
Formaldehyde, ACS	100 mL MDB	205932
Rochelle salt solution	29 mL DB	172533
Water, deionized	500 mL	27249

