

IRON TEST KIT

0-1 mg/L

Model IR-18A

Cat. No. 1465-00



To ensure accurate results please read carefully before proceeding. Excess iron will inhibit full color development in this test. If excess iron is a problem a diluted sample should be tested instead of the regular sample. The results gained from the diluted sample must be multiplied by the dilution factor to obtain a correct reading. For example, if the sample is diluted to three times its original volume (a 1:3 dilution factor) the results must be multiplied by 3; a 1:2 dilution factor is multiplied by 2, etc.

The orange color will develop regardless of the form in which the iron is present in the sample.

WARNING: The chemicals in this kit may be hazardous to the health and safety of the user if inappropriately handled. Please read all warnings before performing the test and use appropriate safety equipment.

**HACH COMPANY, P.O. BOX 389, LOVELAND, COLORADO 80359
TELEPHONE: WITHIN U.S. 800-227-4224, OUTSIDE U.S. 970-669-3050, TELEX: 160840**

Instructions for Iron Test

0-1 mg/L

1. Fill one sample tube to the line underlining "Cat. 1730-00". This will be approximately 15 mL. If not using 1730-00 tubes, fill to the line found at approximately 1 inch below the top of the tube.
2. Use the clippers to open one FerroVer Iron Reagent Powder Pillow. Add the contents of the pillow to the sample tube. Stopper the tube and invert to dissolve. Allow to stand two to five minutes. Remove stopper. If iron is present an orange color will develop.
3. Place the lengthwise viewing adapter in the comparator as shown in Figure 1.
4. Place the tube containing the prepared water sample into the comparator opening labelled Prepared Sample Position in Figure 1.

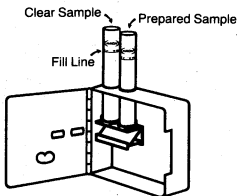


FIGURE 1

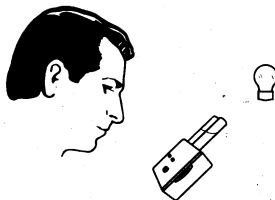


FIGURE 2

5. Fill the other sample tube with untreated water or a reagent blank to the line underlining "Cat. 1730-00". Insert this tube into the comparator opening labelled Clear Sample Position in Figure 1.
6. Orient the comparator with the tube tops pointing to a window or light source as in Figure 2. View through the openings in the front of the comparator. When viewing, use care to not spill samples from unstoppered tubes.
7. Rotate the disc until a color match is obtained. Read the mg/L iron (Fe) through the scale window.

REPLACEMENTS


Cat. NO.	Description	Unit
1732-00	Color Comparator	each
1730-00	Color Viewing Tube	each
1756-00	Iron (Phenanthroline) Color Disc, 0-1 mg/L	Each
24122-00	Lengthwise Viewing Adapter	each
14480-01	Stopper for color viewing tube	pkg/6
139-11	Iron Stand Solution 1 mg/L as Fe (not included in kit)	473 mL (pt)
854-66	FerroVer Iron Reagent Powder Pillows	pkg/50
968-00	Clippers	each

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MADE IN U.S.A.

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FerroVer Iron Reagent does not have unlimited shelf life but normally will last more than 12 months. To check the reagent, test water that contains visible rust. If a color develops the reagent is performing properly. If no color develops, the reagent has deteriorated and should be replaced. Store FerroVer Iron Reagent in a dry area.

It is suggested that reagent accuracy be checked from time to time by using a reliable standard such as Iron Standard Solution Cat. No. 139-11, listed under *Replacements*. Follow test instructions using that standard instead of sample.