

# Individual Test Kits

Order Code	Test System	Range/Sensitivity	# of Tests [# Reagents]	Reagent Refill Order Code	Shipping Code (Weight/Lbs)
<b>CHLORINE</b> Free, Combined and Total Chlorine may be determined using DPD with either colorimetric or titrimetric methods. These determinations are generally limited to concentrations of 0-10 ppm, although the FAS titration can test higher concentrations by dilution or with the addition of more DPD indicator. Higher concentrations require the iodometric titration, whereby the sample is acidified and iodide is added, which is oxidized by chlorine to iodine and is titrated with a standard thiosulfate solution. Iodometric determinations will only test total chlorine.					
<b>FREE &amp; TOTAL</b>					
<b>3308-01*</b>	DPD Tablet Octa-Slide 2 Comparator	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm Cl	50 [2]	R-3308-01	NH [1]
<b>3312-01*</b>	DPD Tablet Octa-Slide 2 Comparator	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm Cl	50 [2]	R-3312-01	NH [1]
<b>DPD FREE, MONO &amp; DICHLORAMINES, TOTAL CHLORINE, pH</b>					
<b>6980-01</b>	DPD Tablet/ Phenol Red Tablet Octa-Slide 2 Comparator	Low: 0.1-1.0 ppm Cl High: 1.0-6.0 ppm Cl pH: 6.8-8.2	200 [5]	R-6980	NH [7]
<b>DPD-FAS TITRATION FOR FREE AND TOTAL CHLORINE</b>					
<b>3176-02*†</b>	Direct Reading Titrator	0-10 ppm/0.2 ppm Cl	50 at 10 ppm [4]	R-3176-02	R1 [2]
<b>7514-01</b>	FAS Dropper Bottle Titration	1 drop = 0.2 or 0.5 ppm Cl	50 [3]	R-7514-01	NH [1]



**3176-02**



**7514-01**

**IRON** Bipyridyl is a ferrous iron indicator that tests total iron after any ferric iron is reduced to ferrous in the sample. Ferrous and ferric may be tested separately by eliminating the reduction step. A similar ferrous indicator, 1,10 phenanthroline, is used in the DC1500 kit.

<b>7787-01</b>	Total Iron LRC Comparator	0.05, 0.10, 0.20, 0.30, 0.40, 0.60, 0.80, 1.0 ppm Fe	30 [2]	R-7787-01	R1 [1]
<b>4447-01</b>	Total Iron Octa-Slide	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm Fe	90 [2]	R-3318	R1 [1]



**7787-01**



**4447-01**

**HARDNESS** EDTA titration is used for all hardness determinations, with a red to blue endpoint. Both total and calcium hardness buffers include inhibitors to eliminate metal interferences. All results are as CaCO<sub>3</sub>; some kits also express results as gpg. The 3609, which is recommended for salt water analysis, includes a conversion factor for Ca<sup>++</sup>. The -LI suffix indicates an all liquid kit; -LT indicates a liquid buffer and tablet indicator.

<b>4482-DR-LI-01</b>	Total Hardness Direct Reading Titrator	0-200 ppm/4 ppm CaCO <sub>3</sub> Liquid indicator	50 at 200 ppm [3]	R-4482-DR- LI-01	R1 [1]
----------------------	---	--	-------------------	---------------------	--------

\*[NPDWR] EPA Accepted · †[NPDES] EPA Accepted · Direct Reading Titrators have a specific range, but may be refilled to test higher concentrations.