

FREE/COMBINED CHLORINE TEST PROCEDURE



The Free/Combined Chlorine test procedure utilizes the **STANDARD STRIP METHOD** using the eXact iDip® Smart Photometer System®. For tips on achieving best accuracy, and additional information regarding features of the eXact iDip® photometer and the eXact iDip® app, please refer to the eXact iDip® Smart Guide. You can download a copy on our website at exactidip.com. **Test procedures can vary from test to test. Read full instructions and watch instructional video within the app.**

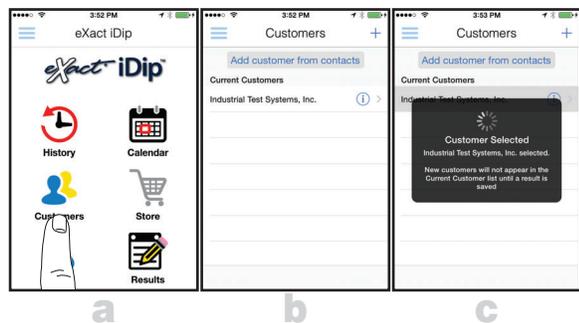
YOU WILL NEED

- eXact iDip® photometer
- Your smartphone/tablet with the eXact iDip® app installed
- (1) eXact® Strip Micro Free Chlorine (DPD-1) (Part No. 486637)
- (1) eXact® Strip Micro Combined Chlorine (DPD-3) (Part No. 486638)
- Water sample for rinsing and testing

1 SELECT CUSTOMER

- Select **'Customers'** from the Home screen.
- Choose customer from list
 - OR** Tap **'Add customer from contacts'** and choose customer from your contacts list
 - OR** Tap **'+'** to create a new customer
- Android users: If no address is found, tap "No addresses found"
- Verify customer has been selected

Note: To take full advantage of the GPS and Data Storage features, each test result must be linked to a contact. Individual users may select their contact listing.

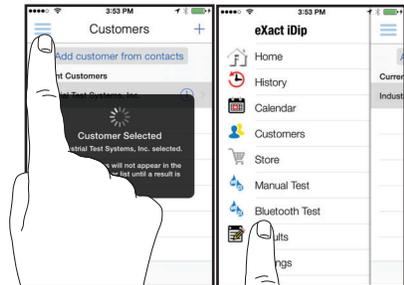


2 POWER ON EXACT IDIP®

Press the **ZERO/ON** button to power on the eXact iDip® photometer.

3 SELECT BLUETOOTH TEST

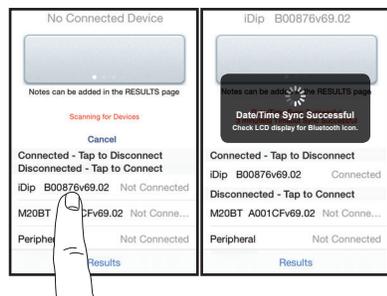
Tap the menu slide out **'≡'** and select **'Bluetooth Test'** from the choices shown.



4 CONNECT EXACT IDIP®

The eXact iDip® app will automatically connect to the most recently used eXact iDip® photometer. If not, select your eXact iDip® from the bottom of the screen.

Note: Always connect your eXact iDip® photometer via the Bluetooth® connection within the app. If you experience an issue connecting your device, check that your smartphone/tablet's Bluetooth® is turned on and your device is compatible.



5 SELECT TEST

Tap **'SELECT'** Test' at the top and select **Chlorine, Free/Combined/Total CL**. The eXact iDip® photometer and eXact iDip® app will both display the test selection for Free Chlorine.



6 FILL CELL

Before testing, rinse CELL and clean with brush thoroughly. Finally, rinse the cell 3 times with the water sample to be tested, then **FILL** cell to capacity to begin test (refer to video in app).



7 CAP CELL AND ZERO METER

Place the Cell Cover onto the CELL and press **ZERO/ON** and the eXact iDip® photometer display reads **0 PPM** indicating the meter is ready for testing.



8 REMOVE STRIP

Remove one eXact® Strip Micro Free Chlorine (DPD-1) (Part No. 486637) and set in a dry, convenient place. Immediately replace cap on bottle.



9 REMOVE STRIP

Remove one eXact® Strip Micro Combined Chlorine (DPD-3) (Part No. 486638) and set in a dry, convenient place. Immediately replace cap on bottle.



10 DIP STRIP

Press **READ** to initiate a 20 second countdown and simultaneously **DIP** the CL (DPD-1) test strip in the sample, gently touching the bottom of the cell. Use a gentle constant back and forth motion (2 strokes per second) until the timer displays "1". Remove and discard the strip.



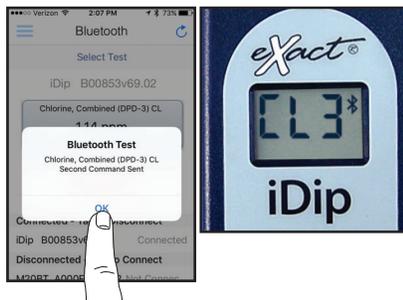
11 CAP CELL AND READ RESULT

Place the Cell Cover onto the CELL and **READ** result displayed as Free Chlorine.



12 TAP OK

App will show 'Chlorine, Combined (DPD-3) CL Second Command Sent'. Tap **OK**. The eXact iDip® photometer and eXact iDip® app will both display the test for Combined Chlorine.



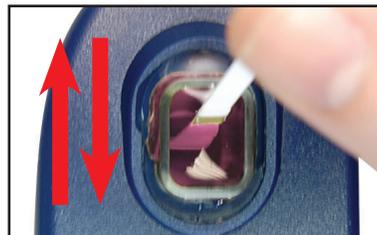
13 ZERO METER

With the sample from Free Chlorine test (step 11) still in the cell and the Cell Cover still on the CELL, press **ZERO/ON** and the eXact iDip® photometer display reads 0PPM indicating the meter is ready to continue testing.



14 DIP STRIP

Press **READ** to initiate a 20 second countdown and simultaneously **DIP** the CL (DPD-3) test strip in the sample, gently touching the bottom of the cell. Use a gentle constant back and forth motion (2 strokes per second) until the timer displays "1". Remove and discard the strip.



15 CAP CELL AND READ RESULTS

Place the Cell Cover onto the CELL and **READ** result displayed as Combined Chlorine.



16 CLEAN CELL WITH BRUSH

After testing, rinse CELL immediately and clean with brush to remove reagents which coat the CELL wall.



TIPS

- Due to the manufacturing process, you may find one or two strips that are noticeably smaller or larger in width than the normal strips in the bottle. These should be discarded. Using these strips may give unreliable results.
- To get final result as Total Chlorine, add the Free Chlorine and Combined Chlorine values together (ex. 1.30ppm + 0.36ppm = 1.66ppm Total Chlorine). The app will do this automatically in Results section.
- DPD-1 will react with other oxidizers including peroxide and ozone.
- DPD will stain the CELL wall if allowed to remain in the CELL. To remove staining, rinse cell thoroughly and fill with water then add two (2) drops of bleach (5-8%) and clean with brush until stain is removed. Caution: Avoid contact of bleach with eyes and clothing.
- Be careful while dipping the strip. Do not spill the sample from the CELL.
- For a list of possible interferences with this test, see eXact iDip® Micro CL Interferences chart in your eXact iDip® Smart Guide.

MANAGE YOUR RESULTS

Save, send, and share results instantly using the eXact iDip® app. For step-by-step instructions, refer to the eXact iDip® Smart Guide. You can download a pdf copy on-line at exactidip.com.

