

# TOTAL IRON TEST PROCEDURE



The Total Iron test procedure utilizes the **STANDARD STRIP METHOD** combined with our eXact reagent EZ open reducer to accurately achieve a total iron reading with 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](http://exactidip.com). **Test procedures can vary from test to test. Read full instructions and watch instructional video within the app.**

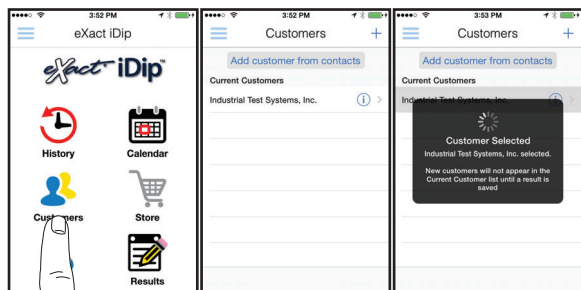
## YOU WILL NEED

- eXact iDip® photometer
- Your smartphone/tablet with the eXact iDip® app installed and Iron, Total FE test purchased in the Store
- (1) eXact® Strip Micro Iron (TPTZ) (Part No. 486631)
- (1) eXact® Reagent EZ Open Reducer (Part No. 486601-25)
- 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"
- c. 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.*



a

b

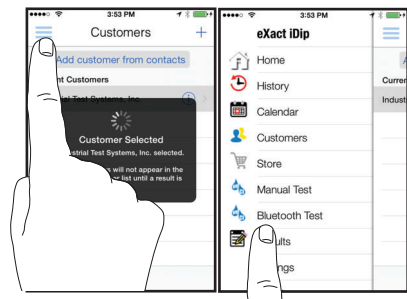
c

## 2 POWER ON EXACT IDIP®

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

## 3 SELECT BLUETOOTH TEST

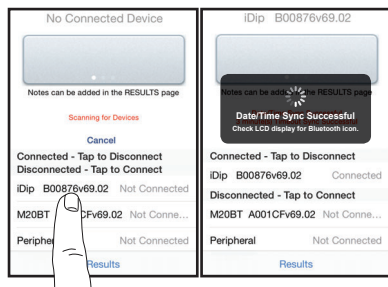
Tap the menu slide out **'≡'** and select **'Bluetooth Test'** from the choices shown.



## 4 CONNECT EXACT IDIP®

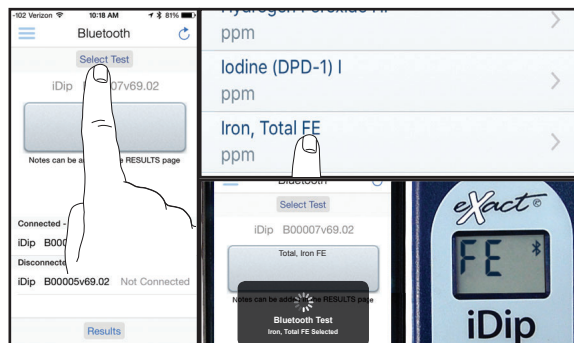
The eXact iDip® app will automatically connect to the most recently used eXact iDip® photometer. If not, select your eXact iDip® from the bottom of the screen.

*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.*



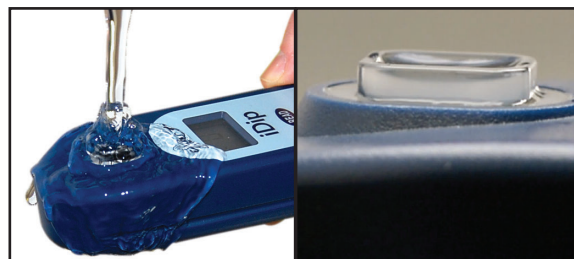
## 5 SELECT TEST

Tap **'SELECT Test'** at the top and select **Iron, Total FE** (if this is not visible, purchase the test from the Store). The eXact iDip® photometer and eXact iDip® app will both display the test selection for Total Iron.



## 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 ADD REDUCER

Tear open one eXact Reagent EZ Open Reducer (Part no 486601-25) powder pillow. Add contents of powder pillow to the CELL. Make sure entire powder pillow is emptied into the CELL.



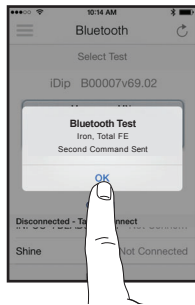
## 8 READ

Place the Cell cover onto the CELL. Press **READ** and a 20 second countdown will begin. Turn the meter upside-down repeatedly for the 20 second duration. When the timer displays "1", place the eXact iDip® photometer on a flat surface and leave the Cell Cover in place. The eXact iDip® photometer will now display a 40 second count-up timer. Make sure your smart device does not go to sleep. During this time, proceed to step 9 and prepare eXact® Strip Micro FE (TPTZ) strip.



## 9 REMOVE STRIP

Remove one (1) eXact Strip Micro (TPTZ) (Part No. 486631) and set in a dry, convenient place. Immediately replace cap on bottle. After the 40 second count-up, the app will show that it is ready to continue with the next part of testing. Tap OK. Ignore the result displayed.



## 10 CAP CELL AND ZERO METER

The meter will display FE3. With the Cell Cover still on, press **ZERO/ON** and the eXact iDip® photometer display reads 0PPM indicating the meter is ready for testing.



## 11 DIP STRIP

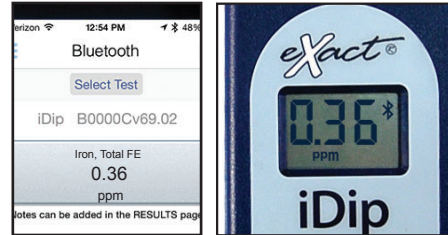
Press **READ** to initiate a 20 second countdown and simultaneously **DIP** the eXact® strip in the sample, gently touching the bottom of the cell. Use a gentle constant back and forth motion (2 strokes per second) until the timer displays "1". Remove and discard the strip.

The eXact iDip® photometer will now display a 40 second count-up timer. Make sure your smart device does not go to sleep.



## 12 CAP CELL AND READ RESULTS

Place the Cell Cover onto the CELL and **READ** result displayed as Total Iron. After testing is complete, rinse CELL immediately. If running multiple tests in a row, repeat steps 5-12.



## 13 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.
- Before running test unlock Total Iron test by purchasing in the Store.
- Before running test, clean the CELL with 0.1N HCl, Distilled Vinegar (5%), or Muriatic Acid before filling the meter with the sample to be tested.
- After the 20 second countdowns, the display will immediately start counting up from 1 to 40.
- If temperature is low, the EZ Open Reducer powder will not dissolve. It is recommended to increase the temperature of the sample to room temperature, then continue with the test procedure.
- To obtain optimal accuracy when testing in direct sunlight, use the Cell Cover when zeroing and reading the sample.
- It is recommended to use the Cell Cleaning Brush with water to clean the CELL after each test to remove reagents which coat the CELL wall.
- If running multiple tests in a row, using the same water sample, the CELL does not have to be rinsed or cleaned with acid between each test. It is recommended that the CELL be rinsed 3 times with the sample water.
- Do not run this test after Sulfide test.
- Be careful while dipping the strip (step 11). Do not spill the sample from the CELL.

### 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 [exactdip.com](http://exactdip.com).

