

# MANGANESE TEST PROCEDURE

The Manganese test procedure utilizes eExact® Strip Micro and eExact® Reagent to accurately achieve a Manganese reading with the eExact iDip® Smart Photometer System®. For tips on achieving best accuracy, and additional information regarding features of the eExact iDip® photometer and the eExact iDip® app, please refer to the eExact 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

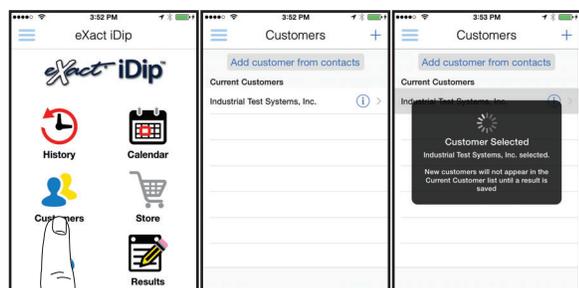
- eExact iDip® photometer
- Your smartphone/tablet with the eExact iDip® app installed and Manganese MN test purchased in the Store
- 1 eExact® Strip Micro Mn#1 (Part No. 481020-1)
- 1 eExact® Strip Micro Mn#2 (Part No. 481020-2)
- 3 drops eExact® Reagent Mn (Part No. 486606-R)
- Water sample for rinsing 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.*



a

b

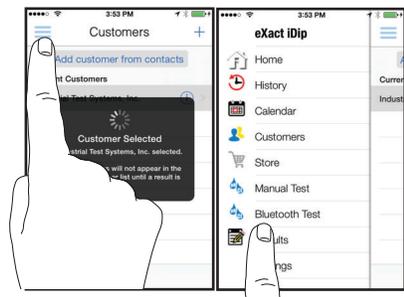
c

## 2 POWER ON EXACT IDIP®

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

## 3 SELECT BLUETOOTH TEST

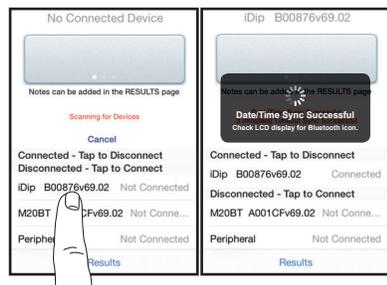
Tap the menu slide out **'≡'** and select **'Bluetooth Test'** from the choices shown.



## 4 CONNECT EXACT IDIP®

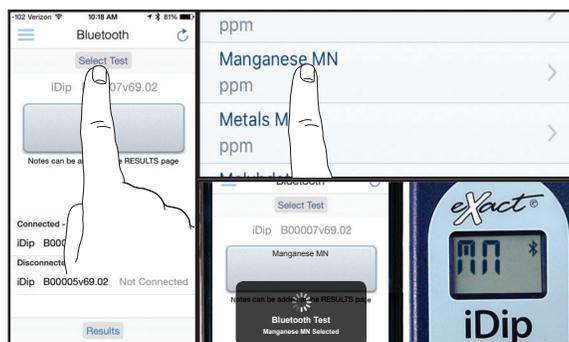
The eExact iDip® app will automatically connect to the most recently used eExact iDip® photometer. If not, select your eExact iDip® from the bottom of the screen.

*Note: Always connect your eExact 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 **Manganese MN** (if this is not visible, purchase the test from the Store). The eExact iDip® photometer and eExact iDip® app will both display the test selection for Manganese.



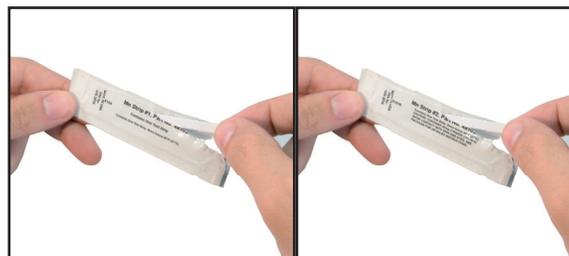
## 6 FILL CELL

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 REMOVE STRIPS

Tear open and remove one MN#1 (Part No. 481020-1) and one MN#2 strip (Part No. 481020-2) and set in a dry, convenient place.



## 8 DIP STRIP

Press **READ** to initiate a 20 second countdown and simultaneously **DIP** the MN#1 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". Before the timer reaches "1", get ready with the MN#2 strip. After "1" on the display disappears, remove the MN#1 strip and **DIP** the MN#2 strip during the next 20 second countdown with a gentle constant back and forth motion (2 strokes per second) until the timer displays "1" Remove and discard the strip.

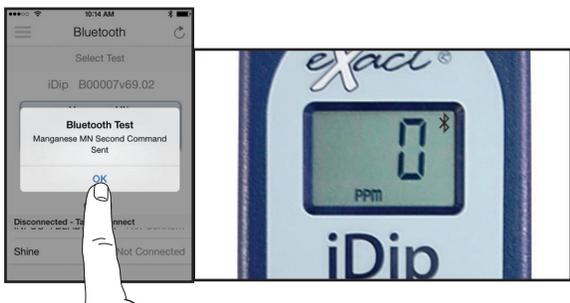


## 9 SHAKE REAGENT

The eXact iDip® photometer will now display a 20 second count-up timer. During this time, shake the bottle of eXact® Reagent MN.

## 10 CAP CELL AND ZERO METER

App will show 'Manganese MN Second Command Sent'. Tap **OK**. Place the Cell Cover onto the Cell and press **ZERO/ON**. The eXact iDip® photometer display reads 0PPM indicating the meter is ready for testing.



## 11 ADD DROPS

Add **3 drops** of eXact® Reagent MN (Part No. 486606-R). Ensure the reagent bottle remains vertical while adding drops.



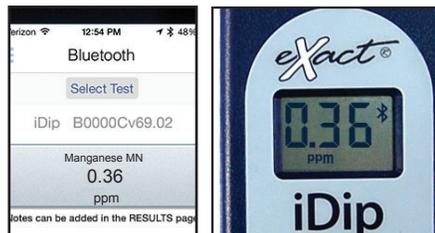
## 12 COVER & MIX

Place the Cell Cover onto the CELL. Press **READ** to initiate a 20 second countdown. Turn the meter **upside-down** repetitively to mix the sample during the 20 second countdown. When the timer displays "1", place the eXact iDip® photometer on a flat surface. The eXact iDip® 570 photometer will now display a 120 second count-up timer.



## 13 READ RESULTS

**READ** result displayed as Manganese. After testing is complete, rinse CELL immediately and clean with brush. If running multiple tests in a row, repeat steps 5-13.



## 14 CLEAN CELL AND CAP WITH BRUSH

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



### TIPS

- Before running test unlock Manganese test by purchasing in the Store.
- After the second 20 second countdown, the display will immediately start counting up from 1 to 20 (step 9)
- After the third 20 second countdown, the display will immediately start counting up from 1 to 120 (step 12)
- Before adding the drops, shake the bottle vigorously (step 9)
- 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.
- Be careful while dipping the strips (step 8). 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 [exactidip.com](http://exactidip.com).

