



# Produce Safety Division

## Agricultural Water Testing Labs For FSMA-Produce Safety rule requirements

The companies listed below were identified as following “scientifically valid” testing methods for agricultural water analysis.  
This list is not intended to endorse any specific business or testing method and additional companies may exist within the State.

| Name of Lab  | Address   | Phone Number   | IDEXX Colilert Test Kit<br><small>Production* &amp; Harvest/Post-harvest Water</small> | IDEXX Colilert-18 Test Kit<br><small>Production* &amp; Harvest/Post-harvest Water</small> | IDEXX Colisure Test Kit<br><small>Harvest &amp; Post-harvest water</small> | IDEXX Colilert-18 Test Kit*<br><small>Production &amp; Post-harvest Water</small> | 9213 D-Natural Bathing Beaches (2007)**<br><small>Production &amp; Post-harvest Water</small> | 9222 B***<br><small>Production &amp; Post-Harvest Water</small> | E*Colite Bag or Vial Test for Total Coliforms & E. Coli in Potable Water<br><small>Harvest &amp; Post-harvest Water</small> | Hach Method 10029 for Coliforms ****<br><small>Production &amp; Post-harvest Water</small> | Modified Colitag™ Test Method *****<br><small>Harvest &amp; Post-harvest Water</small> | Method 1603: ( <i>E. coli</i> ) in Water by Membrane Filtration<br><small>Production &amp; Post-harvest Water</small> |
|--|---|----------------|--|---|--|---|---|---|---|--|--|---|
| Mississippi Public Health Laboratory   | 570 East Woodrow Wilson Jackson, MS 39216                       | (601) 576-7582 | √  | √   | √  | √   |   |   |   |  |  |   |
| Bonner Analytical Testing, Inc.  | 2703 Oak Grove Road Hattiesburg, MS 39402                       | (601) 264-2854 | √  | √   | √  |   | √   | √   | √   |  |  |   |
| Micro-Methods Laboratory   | 6500 Sunplex Drive Ocean Springs, MS 39564                      | (228) 875-6420 | √  |   |  |   |   |   |   | √  |  |   |
| Enviro-Labs Inc.   | 603 E Gillespie Street, Starkville, MS 39759                    | (662) 323-7744 |  |   |  |   |   |   |   | √  |  |   |
| Waypoint Analytical Mississippi, Inc.  | 235 Highpoint Dr Ridgeland, MS 39157                            | (601)957-2676  | √  | √   |  |   |   |   |   |  |  |   |
| Center for Government & Community Development Mississippi State University Extension | Bost Building, Suite 410, Mississippi State, MS 39762           | (662) 325-1788 |  |   |  |   |   |   |   |  | √  |   |
| Food Science food safety & microbiology lab Mississippi State University Ext.        | 945 Stone Blvd, 107 Herzer Building Mississippi State, MS 39762 | (662)325-3200  |  |   |  |   |   |   |   |  |  | √   |

\*but only if using ICEXX Quanti-Tray/2000 for Quantification

\*\*In: Standard Methods for the Examination of Water and Wastewater, 22nd Edition (Rice E.W., et al., Ed.), 9-46 – 9-48. Washington, DC: American Public Health Association. (2012).

\*\*\*Standard Total Coliform Membrane Filter Procedure (1997), followed by 9222 G – MF Partition Procedures (1997) using NA-MUG media. In: Standard Methods for the Examination of Water and Wastewater, 21st Edition (Eaton A.D., et al., Ed.), 9-60 – 9-65, and 9-70 – 9-71, respectively. Washington, DC: American Public Health Association. (2005).

\*\*\*\*Total and E. coli, using m-ColiBlue24 Broth PourRite Ampules

\*\*\*\*\*for the Simultaneous Detection of E. Coli and Other Total Coliforms in Water. ATP D05-0035. (2009)

**For water used during growing activities that comes in direct contact with covered produce, you need to test for *E. coli* with results shown in CFU or MPN, using one of the following methods:**

1. Method 1603: *Escherichia coli* (*E. coli*) in Water by Membrane Filtration Using Modified membrane-Thermotolerant *Escherichia coli* Agar (Modified mTEC) (September 2014). U.S. Environmental Protection Agency. EPA-821-R-14-010.

2. Method 1103.1: *Escherichia coli* (*E. coli*) in Water by Membrane Filtration Using membrane-Thermotolerant *Escherichia coli* Agar (mTEC) (March 2010). U.S. Environmental Protection Agency. EPA-821-R-10-002.

3. Method 1604: Total coliforms and *Escherichia coli* in Water by Membrane Filtration Using a Simultaneous Detection Technique (MI Medium) (September 2002). U.S. environmental Protection Agency. EPA-821-R-02-024.

4. 9213 D- Natural Bathing Beaches (2007). In: Standard Methods for the Examination of Water and Wastewater, 22<sup>nd</sup> Edition (Rice E.W., et al., Ed.), 9-46 -9-48. Washington, DC: American Public Health Association. (2012).

5. 9222 B – Standard Total Coliform Membrane Filter Procedure (1997), followed by 9222 G – MF Partition Procedures (1997) using NA-MUG media. In: Standard Methods for the Examination of Water and Wastewater, 21st Edition (Eaton A.D., et al., Ed.), 9-60 – 9-65, and 9-70 – 9-71, respectively. Washington, DC: American Public Health Association. (2005).

6. D 5392-93 – Standard Test Method for Isolation and Enumeration of *Escherichia coli* in Water by the Two-Step Membrane Filter Procedure. In: Annual Book of ASTM Standards, Volume 11.02. ASTM International. (1996, 1999, 2000).

7. Hach Method 10029 for Coliforms – Total and *E. coli*, using m-ColiBlue24 Broth PourRite Ampules.

8. IDEXX Colilert Test Kit, but only if using IDEXX Quanti-Tray/2000 for quantification.

9. IDEXX Colilert-18 Test Kit, but only if using IDEXX Quanti-Tray/2000 for quantification.

**For water that only contacts covered produce during harvest or after harvest, used on food contact surfaces, used for washing hands, or used as sprout irrigation water, you also have the option to use one of the following presence/absence methods:**

1. TECTATM EC/TC medium and the TECTATM Instrument: A Presence/Absence Method for the Simultaneous Detection of Total Coliforms and *Escherichia coli* (*E. coli*) in Drinking Water. (2014).
2. Modified ColitagTM Test Method for the Simultaneous Detection of *E. coli* and other Total Coliforms in Water. ATP D05-0035. (2009).
3. IDEXX Colilert Test Kit
4. IDEXX Colilert-18 Test Kit
5. IDEXX Colisure Test Kit
6. E\*Colite Bag or Vial Test for Total Coliforms and *E. coli* in Potable Water. Charm Sciences, Inc.
7. 101298 ReadyCult Coliforms 100. EMD Millipore (division of Merck KGaA, Darmstadt, Germany).