

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 Commonwealth.

Company	City/State	Phone #
Air Water & Soil Lab	Richmond, VA	804-358-8295
Analytics Corp.	Ashland, VA	804-365-3000
Clear Creek Water Works	Christiansburg, VA	540-381-0768
Coastal Bioanalysts	Gloucester, VA	804-694-8285
E M S	Wytheville, VA	276-228-6464
EnviroCompliance Lab	Ashland, VA	804-550-3971
EnviroCompliance Lab	Verona, VA	804-550-3971
Environmental Monitoring	Norton, VA	276-679-6544
Environmental Systems Service	Bedford, VA	540-586-5413
James R. Reed & Assoc.	Newport News, VA	757-873-4703
Jennings-Thompson Lab	Virginia Beach, VA	757-425-1498

Company	City/State	Phone #
Joiner Micro Lab	Warrenton, VA	540-347-7212
LJT Analytical Lab	Wallops Island, VA	757-824-1155
Mid-Atlantic Lab	Port Royal, VA	540-775-7775
Roanoke Rapids Sanitary District	Roanoke Rapids, NC	252-537-3319
Schneider Lab	Richmond, VA	804-353-6778
Universal Lab	Hampton, VA	757-865-0880
VDACS Harrisonburg Lab	Harrisonburg, VA	540-209-9130
VDACS Lynchburg Lab	Lynchburg, VA	434-200-9988
VDACS Warrenton Lab	Warrenton, VA	540-316-6543
VDACS Wytheville Lab	Wytheville, VA	276-228-5501
Water Testing Labs of Maryland	Salisbury, MD	410-546-1318
AgroLab	Harrington, DE	302-566-6094

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, 22nd 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 Colitag™ 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).

***This listing is current as of 9/17/2018. For additional information or to add another company to the list above, please contact us at 804.786.4003 or at produce.safety@vdacs.virginia.gov