



3M Science.
Applied to Life.™

Protection from farm-to-table.

3M™ Molecular Detection Assay 2 – *E. coli* O157 (including H7)

Testing for *E. coli* O157 (including H7), is a critical component of food safety programs. The 3M™ Molecular Detection Assay 2 - *E. coli* O157 (including H7) is a breakthrough in testing for the food and beverage industry. An innovative solution that is fast, cost effective and easy to use without sacrificing sensitivity or specificity. Intesting raw milk, unpasteurized fruit juices, raw vegetables,

undercooked or raw ground beef, cover all your bases with the 3M Molecular Detection Assay 2 - *E. coli* O157 (including H7) which is used with the 3M™ Molecular Detection System for the rapid and specific detection of *E. coli* O157 (including H7) in enriched food samples. As part of the 3M Molecular Detection System, you can be confident with information you can trust.

Specificity and sensitivity on real time results.

The next generation 3M™ Molecular Detection Assays use isothermal amplification of nucleic acid sequences with high specificity, efficiency and rapidity. Bioluminescence is used to detect the amplification.

Find an answer to every contingency.

Escherichia coli bacteria normally live in the intestines of people and animals, and most of them are harmless, however, some *E. coli* strains are pathogenic, causing either diarrhea or illness outside of the intestinal tract. The types of *E. coli* that can cause diarrhea can be transmitted through contaminated water or food, cross-contamination, or through contact with ill humans or animals.

Foodborne outbreaks of *E. coli* O157:H7 can result in significant adverse health conditions for people of any age. Severe illness and a complication called hemolytic uremic syndrome are more common among children. According to the CDC, “around 5–10% of those who are diagnosed with *E. coli* O157 infection develop a potentially life-threatening complication known as hemolytic uremic syndrome (HUS)”.

The 3M Molecular Detection Assay 2 - *E. coli* O157 (including H7) offers:

- Positive samples identified as early as 15 minutes
- Flexibility to test 1 to 96 samples in each run
- Ability to incorporate other assays in the same run using the same protocol
- Only two transfer steps after a single enrichment
- Ready-to-use and pre-dispensed reagents
- Real-time results to help you make critical decisions faster

Ordering Information

Product Description	Catalog Number	Size
3M Molecular Detection Assay 2 – <i>E. coli</i> O157 (including H7)	MDA2ECO96	96 tests/kit

Certifications and Validations:

- AOAC® Official Method of AnalysisSM (AOAC 2017.01)



Simple and streamlined workflow.



Raw beef products
Raw fruits and vegetables
(including juices)

1X g sample



Sample size
25 g - 325 g



BPW ISO for most matrices
Enrichment 41.5 °C / 8-24 h



Simple Lysis



60 min

Get results you can trust at 3M.com/foodsafety/MDA2



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