

DuPont™ Lateral Flow System

E. COLI O157 TEST

PRODUCT DESCRIPTION

The DuPont™ Lateral Flow System test for *E. coli* O157 is simple and accurate.

- No capital expense
- Low labor and material costs with minimal training
- Detects *E. coli* O157 (including O157:H7) in beef in 8 hours



DuPont™ Lateral Flow System

E. coli O157 test

Part #D12457116 (prev. 18220014)

50 test strips

DuPont™ Lateral Flow System

E. coli O157 media

Part #D12457133 (prev. 18230016)

500-g bottle

How the Lateral Flow System *E. coli* O157 test works

The DuPont™ Lateral Flow System test is an immunoassay with built-in controls. It employs a unique combination of anti-*E. coli* O157 antibodies and a highly engineered colloidal gold conjugate coated on the surface of a membrane. The sample wicks up the test strip by capillary action. If *E. coli* O157, including O157:H7, is present in the sample, two red lines are formed.

Using the DuPont™ Lateral Flow System media for *E. coli* O157 **reduces enrichment time to just 8 hours for beef samples** (can be extended to 18 hours to fit with your lab's work flow). The media powder is mixed directly with sterile water for immediate use. You can also use the test with standard 20-hour enrichment broths for beef and fruit juice. After enrichment, you can choose to heat-treat the samples or test them immediately. Simply drop the test strip into an aliquot of sample broth, and **read the results 10 minutes later**. One control line is built into the lateral flow strip so you know the test has worked correctly. Two lines indicate a positive result. Test strips are **stored at room temperature**.

Applications

The DuPont™ Lateral Flow System *E. coli* O157 test is designed to detect *E. coli* O157, including O157:H7, in raw beef (boneless and ground) and processed foods, including fruit juices. The test can reliably detect 1 cfu in 25 grams of sample.

Packaging

DuPont™ Lateral Flow System *E. coli* O157 test strips are available in 50-test kits, which include a package insert. Media (500 grams) is available separately.

Approvals

The DuPont™ Lateral Flow System *E. coli* O157 test has been certified by AOAC-RI as Performance Tested MethodsSM 010601.



Samples of this test kit model were independently evaluated by the AOAC Research Institute and were found to perform to the producer's specifications as stated in the test kit's descriptive insert. The producer certifies this kit conforms in all respects to the specifications originally evaluated by the AOAC Research Institute as detailed in the Performance Tested Certificate number 010601.



The miracles of science™

Lateral Flow System protocol

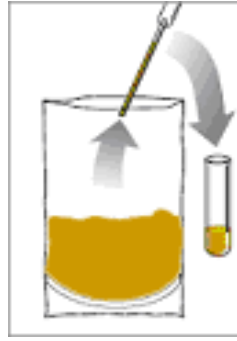
Step 1. Place sample in bag.



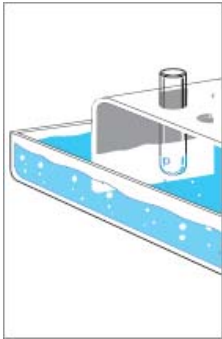
Step 2. Homogenize sample with prepared *E. coli* O157 media. Incubate at 42°C for 8-18 hours.



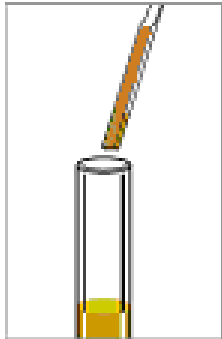
Step 3. Transfer aliquot of enrichment to test tube.



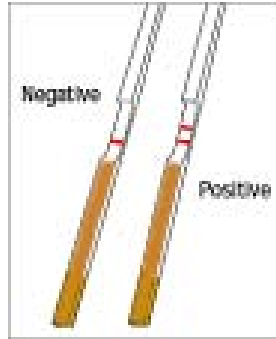
Step 4 (optional). Heat 10 minutes at 100°C. Allow to cool to room temperature.



Step 5. Insert test strip and allow to develop for 10 minutes.



Step 6. Remove test strip from tube and read result.



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