

One Method

One Enrichment

One Assay Kit

Polyskope  
One

PolySkope One (Patent # WO2016164407A3) uses a single, overnight enrichment to individually or simultaneously detect all of the most common foodborne pathogens: *E. coli* O157:H7, Shiga Toxin *E. coli* (STEC), *Salmonella* spp., and *Listeria monocytogenes*. The assay is modular & flexible, allowing selection of pathogens based up to the last minute with a single, simplified protocol.

### Minimal Equipment & Materials Required

1. 10  $\mu$ L & 100  $\mu$ L single channel micro-pipettors (12-channel multi-pipettors recommended)
2. Stomacher, ThermoMixer w/96 well block, 5 Color RT-PCR Instrument,
3. 96 well deep-well blocks & PCR plates, plate covers, stomacher bags, pipette tips.

### Simple & Easy Method Protocol

1. 225 mL PolySkope Universal Enrichment media + 25g food sample in sterile stomacher bag
2. Stomach for 30 seconds, enrich 23 $\pm$ 1 hrs @37 $^{\circ}$  C.
3. PolySkope Lysis (30 mins)
4. PolySkope RT-PCR Multiplex Assay (1.5 hrs) -> Results

## Low Cost

*E. coli* O157:H7, Shiga Toxin *E. coli* (STEC), *Salmonella* spp., *Listeria monocytogenes*

### PCR Kit

\$2.08  
per test

PolySkope One  
Multiplex q-PCR kit & plastics  
\$599 / 96 sample kit  
(288 tests)



### Enrichment

\$1.29  
per test

PolySkope Multiplex Enrichment Medium  
(PMEM)  
\$425 / 2.5 Kg  
(330 tests)



Price per test: \$3.37

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### One Enrichment:

- Same bag enrichment for *E. coli* O157:H7, Shiga Toxin *E. coli*, *Salmonella* spp., *Listeria monocytogenes*.
- Single, overnight (23±1 hours) enrichment @37 °C for all pathogens
- Detect any or all major pathogens from 1 Enrichment Bag

### One Protocol:

- Single template prep and PCR run
- Detect 1, 2 or 3 pathogens individually or simultaneously
- Modular format for ultimate testing flexibility

### Reduce & Simplify:

- Inventory, logistics, training, regulatory burden
- Technician labor, processing, prep and run time
- Enrichment media, reagents, disposables & equipment
- Lab, storage and incubator space



### Robust & Flexible qPCR Platform by ABI:

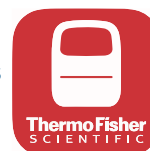
- Lockable protocol templates
- In-run QC checks
- Easy traceability with consumables tracking
- 96 or 384 well plates
- Easy automation for high-throughput facilities
- Up to 6 target multiplexing via optimized optical channels

applied biosystems  
by Thermo Fisher Scientific



QuantStudio<sup>®</sup> 5

Remote Run  
Control & Analysis  
via Instrument  
Connect App



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