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 μL & 100 μL 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±1 hrs @37° C.
3. PolySkope Lysis (30 mins)
4. PolySkope RT-PCR Multiplex Assay (1.5 hrs) -> Results

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**Low Cost**

<table>
<thead>
<tr>
<th>PCR Kit</th>
<th>Enrichment</th>
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<tbody>
<tr>
<td>PolySkope One Multiplex q-PCR kit &amp; plastics</td>
<td>PolySkope Multiplex Enrichment Medium (PMEM)</td>
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<tr>
<td>$2.08 per test</td>
<td>$1.29 per test</td>
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*E. coli O157:H7, Shiga Toxin E. coli (STEC), Salmonella spp., Listeria monocytogenes*

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**Price per test:** $3.37
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