

# Make the move to a progressive technology

## PCR

(Polymerase Chain Reaction)  
Traditional | Complex

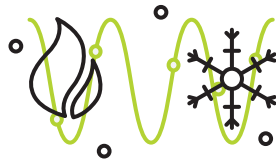
vs.

## LAMP

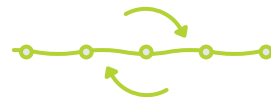
(Loop-Mediated Isothermal DNA Amplification)  
Progressive | Simplified

### Thermal cycling

Provides opportunities for inhibitors to interfere



vs.



### Continuous amplification

Excellent tolerance to common PCR inhibitors

### Preparation requirements

Lysis buffers are not pre-dispensed, which increases complexity, labour and cross-contamination risk



vs.

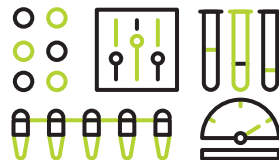


### Ready to use

No buffers or reagent mixes to prepare which removes the risk of false negatives caused by incorrect preparation

### Multiple protocols

Different test protocols for each pathogen increase complexity and risk of error



vs.



### Single protocol

One process for all pathogens streamlines workflow and helps reduce risk

### IAC needed

Internal amplification control (IAC) is necessary to overcome inherent limitations/challenges



vs.



### IAC not needed

Matrix control and reagent controls help provide additional assurance

## 3M™ Molecular Detection System with LAMP Technology

### Cost-Effective\*

An affordable alternative to traditional pathogen testing

### Accurate\*

Increase sensitivity with this robust, specific technique

### Fast

See results as quickly as 15 minutes

### Easy to Use

Single protocol for all assays

### Reliable

No internal amplification control needed for reliable results

Primary method of the USDA Food Safety and Inspection Service for the detection of *Salmonella* and *Listeria*

Learn more at [3M.ca/FoodSafety/Pathogens](https://www.3m.ca/FoodSafety/Pathogens).