

# Make the move to a progressive technology

## PCR

(Polymerase Chain Reaction)  
Traditional | Complex



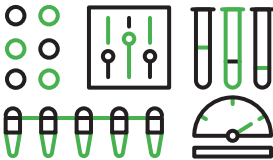
### Thermal Cycling

Provides opportunities for inhibitors to interfere.



### Requires Preparation

Lysis buffers are not pre-dispensed, increasing complexity, labor, and cross-contamination risk.



### Multiple Protocols

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



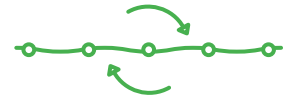
### IAC Needed

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

vs

## LAMP

(Loop-Mediated Isothermal DNA Amplification)  
Progressive | Simplified



### Continuous Amplification

Excellent tolerance to common PCR inhibitors.



### Ready to Use

No buffers or reagent mixes to prepare with no risk of false negative due to incorrect preparation.



vs

### Single Protocol

One process for all pathogens streamlines workflow and reduces risk.



vs

### IAC Not Needed

Matrix Control and Reagent Controls provide additional assurance.



vs

## Neogen® 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 early as 15 minutes.

### Easy to Use

Single protocol for all assays.

### Reliable

No internal amplification control needed for reliable results.

Neogen Molecular Detection Assay 2 - *Salmonella*, Neogen Molecular Detection Assay 2 - *Campylobacter*, and Neogen Molecular Detection Assay 2 - *Listeria* are the primary methods used by the USDA Food Safety and Inspection Service.

Learn more at [info.neogen.com/MDS](http://info.neogen.com/MDS)