

Clear Safety

Reimagine the Way Food Is Tested and Analyzed



What Is Clear Safety?

PCR, culturing, and antigen-based tests tell you whether a pathogen is present or absent.

Clear Safety is much more. It is the first automated, intelligent NGS platform that's purpose-built for food safety testing. Clear Safety generates hundreds of millions of data points per analysis that can be used to learn significantly more than what today's pathogen screening platforms allow. It provides all the data you need, without the liability of whole genome sequencing.

Features & Benefits

Pathogen Profiling Gives You the Info You Need, When You Need It

Clear Safety enables deep molecular characterization of pathogens, with just the amount of information needed for your safety program, without the liability of whole genome sequencing.

You can choose to drill down to serotypes and strains based on the application need.



Multi-Target Analysis Makes Food Safety Cost-Effective

With Clear Safety, you can efficiently screen an array of pathogens, increasing throughput and reducing costs.

Clear Safety enables you to run pathogen samples in the same or different matrices in parallel.

Plus, you can save money by eliminating multiple pathogen tests per matrix or by volume batching.



Automation Curtails Errors and Inefficiencies

Our automated workflow reduces hands-on time, technical error, and variability, and it provides more flexibility around shift schedules.

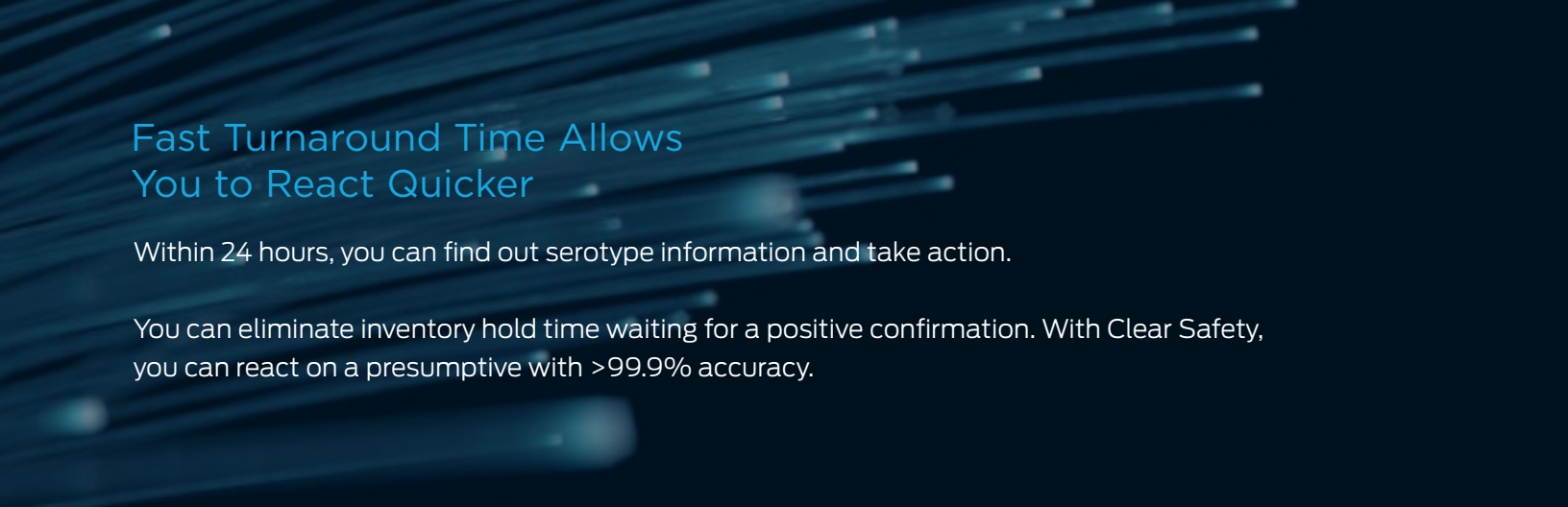
Our barcoding system makes it easy to track samples and reduces data entry errors.



Superior Accuracy Sharply Reduces False Positives and Negatives

Clear Safety's accuracy sharply reduces false negatives and positives, curtailing recall risks, operational costs, holding time, and short-shipping penalties.

With >99.9% accuracy, we give you the best screening assurance in the industry. You can stop chasing ghosts and start shipping product.



Fast Turnaround Time Allows You to React Quicker

Within 24 hours, you can find out serotype information and take action.

You can eliminate inventory hold time waiting for a positive confirmation. With Clear Safety, you can react on a presumptive with >99.9% accuracy.

Enterprise Software & LIMS Simplifies Decisions

With our software and barcoding system, you can easily track samples from enrichment to answer.

Our cloud-based solution gives you access to faster reporting and data analytics on samples and sites.

What is more, our reports are easy to read, thus simplifying decisions for your team and enabling you to release product with confidence.

How Does Clear Safety Work?

The Clear Safety workflow starts with a registration process. Lab technicians register their samples with LIMS. Afterward, they begin the enrichment process, which is as short as 10 hours, depending on the matrix.

Next, the lab technicians transfer the samples to their tubes. During this process, barcodes are used to make it easy to track samples and eliminate manual data entry, which can lead to errors.

Once the samples are transferred and registered, lab technicians can load the Clear Safety robot and then begin the automated workflow, which includes:

- Lysis
- DNA extraction
- Library preparation
- Automated workflow for loading library onto the sequencer
- DNA sequencing

Afterward, lab technicians will have access to easy-to-read reports. They can drill down to serotypes and strains based on the application need.

The entire process – from the initial sample registration to answer – takes less than 24 hours.

To learn more, watch this video: https://www.youtube.com/watch?v=kQXI6HP_jyQ

How Does Clear Safety Compare to PCR?

PCR

Clear Safety

Accuracy

Higher rates of false positives and negatives

>99.9% accuracy, resulting in dramatically lower rates of false positives and negatives

Pathogen Profiling

Expensive and slow speciation with limited serotyping capabilities

Speciation, serotyping, and strain identification are faster, more inexpensive, and carried out simultaneously

Throughput

Screen for one pathogen at a time

Screen for an array of pathogens in one test

Automation

Hands-on labor, prone to errors

Robotics that reduce labor and errors

Environmental Contamination

Environmental mapping not included

Resident/transient contamination analysis

Insights

Binary yes/no answers

AI and machine learning provide trends, environmental maps, and predictive risk assessments



Ready to join the leading food brands and labs that rely on us for the most accurate and advanced food safety testing?

Contact us at inquiries@clearlabs.com to learn more.