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

Tunable Characterization 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. Use Clear Safety's Similarity Analysis™ to conduct resident and transient analyses for your in-plant operations.
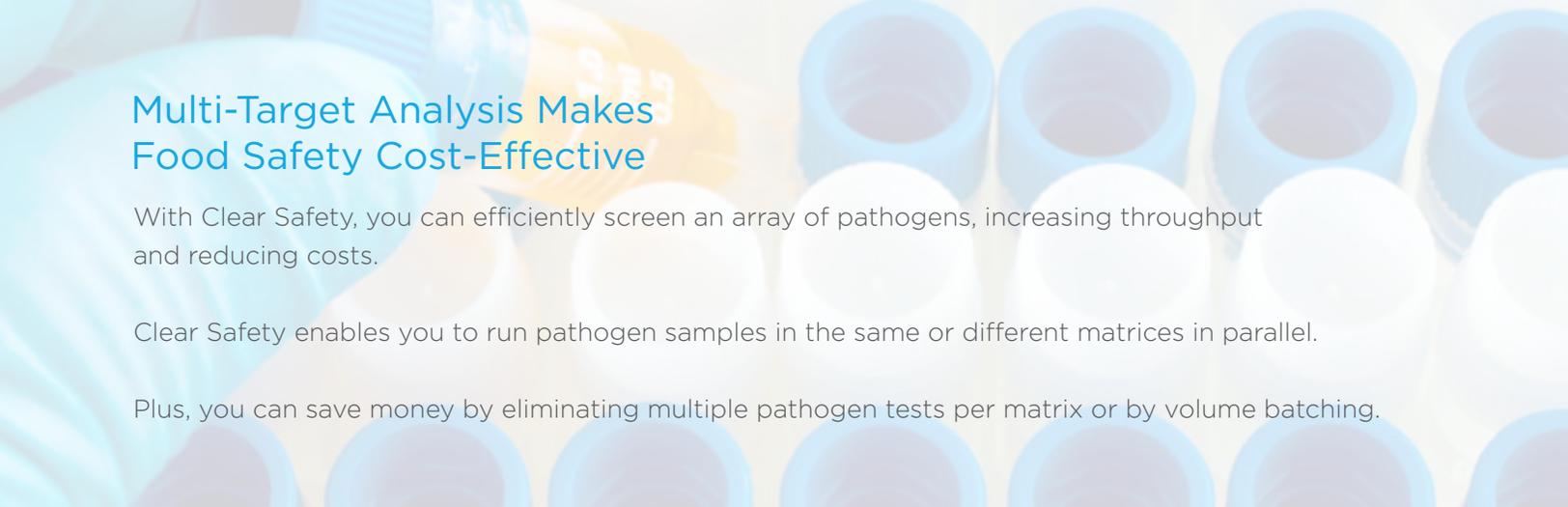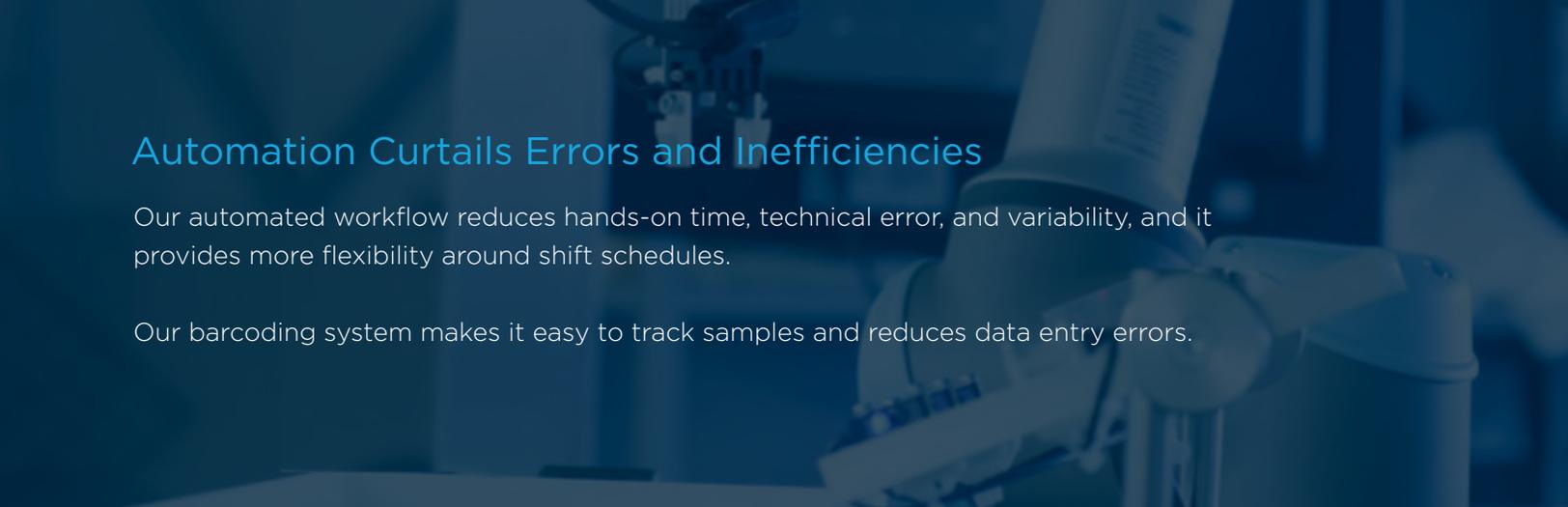
Multi-Target Analysis Makes
Food Safety Cost-Effective

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.
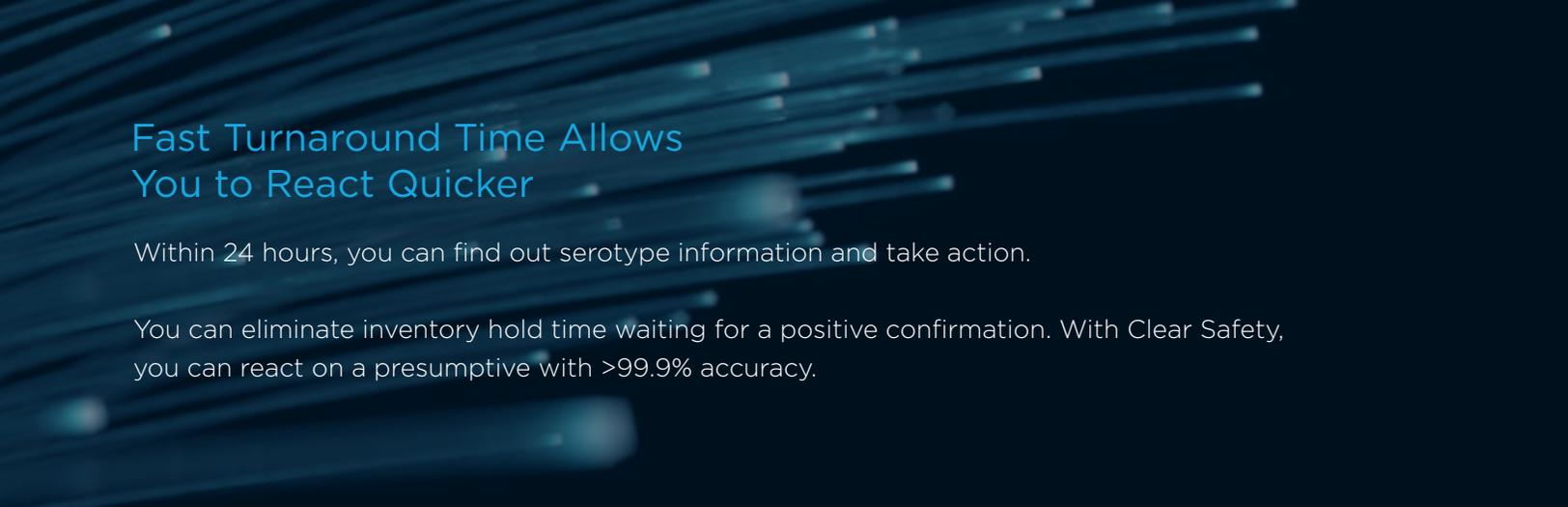
Fast Turnaround Time Allows
You to React Quicker

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.

Environmental Mapping

Visualize your environmental test results so that you can better understand contamination incidents and take more informed corrective actions.

Easily upload floor plans and choose sample sites for routine environmental testing.

See your test results on a map so that you can assess the state of your plant with one glance.

Determine which pathogen subtypes have appeared in your facility before. Then, look at historical data to track the movement of a particular subtype through your facility.

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 14 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=kQXl6HP_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

Clear Labs

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.