

Xpress™ Rapid Pathogen Detection System

 **HARDY**
DIAGNOSTICS
A Culture of Service™



Online Ordering Available



Xpress™

Rapid Pathogen Detection System

The Xpress™ Rapid Pathogen Detection System is cutting edge technology, that speeds up time to result, decreases the risk of cross contamination (unlike PCR), with low capital equipment start-up costs and AOAC PTM tested reliability.

SMALL
FOOTPRINT



A revolutionary new food testing platform that provides same day results

"We don't need more food testing; we need better food testing technology. The Xpress™ Rapid Pathogen Detection System reduces in test-time, and supports rapid identification of adulterants. This results in efficient and timely decision-making, to ensure product safety within the HACCP framework."

- Dr. Russell Cross,
Professor TAMU,
Former Administrator FSIS.



Loading sample
to a Biocassette

RESULTS IN LESS THAN 10 HOURS

The difference between Xpress™ and PCR is like night and day. Xpress™ can provide results in under 10 hours versus up to 24 hours or longer for typical PCR results. Xpress™ is based on a mechanical reaction between

	Xpress™	PCR
Technology	Liquid Crystal Biosensors	Polymerase Chain Reaction
Detection Method	LC Disruption	DNA amplification
Certified	AOAC	Some systems
Start to Finish	< 10-12 hours	14-24 hours
Testing Protocol	Continuous	Batch
Equipment Cost	< \$25,000	> \$50,000

targeted pathogens and antibodies; while PCR is based on a slower, biological reaction of DNA replication. The differences are dramatic.

Please visit www.HardyDiagnostics.com/CDx.html to see the complete list of Xpress™ targets and food applications including AOAC approved O157, *Salmonella*, *Listeria*, and STECs in raw ground beef, beef trim, and spinach.

Xpress™ Rapid Pathogen Detection System is made up of four primary components:

- A disposable 5-cell BioCassette and Liquid Crystal
- Antibody Kit containing magnetic microspheres coated with target antibodies
- Xpress™ Reader that identifies positive tested samples via digital imaging
- Rapid selective enrichment media

Xpress™ Reader



Liquid Crystal BioCassette



Antibody Kit



WHEN MINUTES MATTER, WE'LL SAVE YOU HOURS

Confirms presumptive positive results from other testing devices in less than 30 minutes

Start to finish results in under 10 hours

Faster than any other commercial pathogen detection system, Xpress™ gives you same day results. No more waiting overnight before releasing product.

Save 6+ hours with Continuous vs. Batch testing

Test samples as they come off of the line, rather than batching samples over an entire production run.

Save 3+ hours, fast enrichment

Xpress™ is accredited for a sample to media ratio of as little as one to three. This saves time and money over other systems, which require greater volumes and longer enrichment to reach detectable levels.

More signal, less background noise

We utilize a proprietary selective enrichment medium for incubation that encourages growth of target pathogens and reduces background noise.

Test in 20 minutes vs. 2+ hours

Xpress™ can detect presence or absence of targeted pathogens in less than 20 minutes. There is no need to go through thermo caging required for DNA amplification.

Call today to set-up a demonstration in your laboratory!



THAT'S ONLY HALF OUR STORY

Continuous Vs. Batch Testing

No need to wait until you collect samples over the course of a day, Xpress™ can analyze five 325 gram samples every 20 minutes. This makes it an ideal solution for any company looking to save hours on their food safety testing.

Cost Efficiencies

The Xpress™ Rapid Pathogen Detection System up-front investment is less than half what's required to set up a PCR system, and operating costs are also lower.

Reduced Risk Of Cross-Contamination

Xpress™ technology utilizes whole-cell capture and detection and does not amplify the target pathogen, DNA false positives resulting from adjacent samples are virtually non-existent.

Simple, Easy To Use

Testing protocols are similar to PCR, but with a disposable Xpress™ BioCassette, no clean-up is required after each test.

Unparalleled accuracy

The Xpress™ Rapid Pathogen Detection System has been evaluated by AOAC including inclusivity/exclusivity, ruggedness, instrument variation, and "lot to lot" stability, and has been accredited to be comparable to the reference method. An independent, third party study determined that the Xpress™ rate of false positives was less than 1%; the lowest of any commercial system *

**Based on E. coli O157 testing of 100 multi-sourced 375g raw ground beef samples, per the published AOAC protocol.*

"As regulatory agencies continue to tighten food safety requirements, it is likely that more and more pathogen testing will be utilized to verify process control. Xpress™ has developed a unique detection system which is highly accurate, reliable, and takes about half the time required by reference methods. This STEC test will be a welcomed addition to many food safety programs."

Dr. Gary Acuff
Director of the Texas
A&M Center for Food Safety



Antibody Kits

Product Name	Description	Cat. no.
E coli O157 Kit	<i>E. coli</i> O157. AOAC Approved. 60 Tests	112501
E coli O157 Kit	<i>E. coli</i> O157. AOAC Approved. 120 Tests	124501
Salmonella Kit	<i>Salmonella</i> spp. AOAC Approved. 60 Tests	112512
Salmonella Kit	<i>Salmonella</i> spp. AOAC Approved. 120 Tests	124512
STEC Kit	STEC O26, O45, O103, O111, O121, O145 and O157. AOAC Approved. 60 Tests	112507
STEC Kit	STEC O26, O45, O103, O111, O121, O145 and O157. AOAC Approved. 120 Tests	124507
Listeria Kit	<i>Listeria</i> spp. AOAC Approved. 60 Tests	112520
Listeria Kit	<i>Listeria</i> spp. AOAC Approved. 120 Tests	124520

BioCassettes

Product Name	Description	Cat. no.
24 BioCassettes	24 - BioCassettes (V4.0) (includes Mini VA Tool)	224301
48 BioCassettes	48 - BioCassettes (V4.0) (includes Mini VA Tool)	248301
24 Liquid Crystal BioKits	24 - LC Bio Kit (includes LC, buffer)	224302
48 Liquid Crystal BioKits	48 - LC BioKits (includes LC, buffer)	248302

Enrichment Media

Organism	Product Name	Description	Cat. no.
Listeria	Listeria Enrichment Broth	50ml, 16/pk	U469
Salmonella	Universal Peptone Enrichment Broth (DS) with Tergitol 4	30ml, 12/pk	U467
	Universal Peptone Enrichment Broth	400ml, 10/pk	U465
E coli O157 Kit	TSB, Modified with Novobiocin	1000ml, 10/pk	U461
STEC	TSB, Modified with Novobiocin	1000ml, 10/pk	U461
	VCC STEC Supplement	10 single use vials	FCM002

Hardware



Xpress™ Reader (v. 4.0)
Cat. no. 200001

Xpress™ Stage
Cat. no. 200530

Product Name	Description	Cat. no.
Xpress™ Reader (v. 4.0)	Includes Xpress™ Starter Kit	200001
Xpress™ Stage	Digitally Controlled Temperature Stage	200530



1430 West McCoy Lane
Santa Maria, CA 93455
www.HardyDiagnostics.com | Sales@HardyDiagnostics.com
Distribution Centers: California | Washington | Utah | Arizona | Ohio | Texas | New York | Florida | North Carolina



1% of all earnings are donated to charitable causes.



A Culture of Service™

1430 West McCoy Lane

Santa Maria, CA 93455

www.HardyDiagnostics.com | Sales@HardyDiagnostics.com

Distribution Centers: California | Washington | Utah | Arizona
Ohio | Texas | New York | Florida | North Carolina