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charles river

Endosafe® Cartridge Technology

How endotoxin testing should be done

Twenty years ago

the bacterial endotoxin test was radically transformed.

Analysts, who manually created standard curves and waited for LAL results, yearned for a more robust assay that delivered faster quantitative results in real-time.

Our scientists envisioned streamlining benches cluttered with vials and pipettes by creating an automated, simplified method to eliminate labor-intensive endotoxin testing.

Since its introduction in 2003, Endosafe cartridge technology has replaced the need for traditional gel-clot and plate-based methods with a more reliable, compendial, and easier-to-use solution.

In 2006, traveling over 220 miles above Earth's surface at a speed of 17,500 mph, the Endosafe PTS and LAL cartridge was utilized to perform biological studies necessary for an extended human presence in space on the International Space Station.

Endotoxin Testing Made Easy

Rapid. Simple. Seamless.

Now, with Endosafe cartridges, any user can generate rapid, automated BET results in about 15 minutes by loading a cartridge into our instruments and pipetting 25 µL of sample into four wells.

Results ready in approximately 15 minutes.

Duplicate sample and PPC meet harmonized pharmacopeia requirements for endotoxin tests

Change in optical density is interpolated against the archived standard curve quantifying to the level of endotoxins

Endosafe cartridges automate chromogenic reaction and incubation processes

Pumps draw and mix samples and reagents, then move to the optical cell for analysis

Instant on-screen results, no further interpretation required

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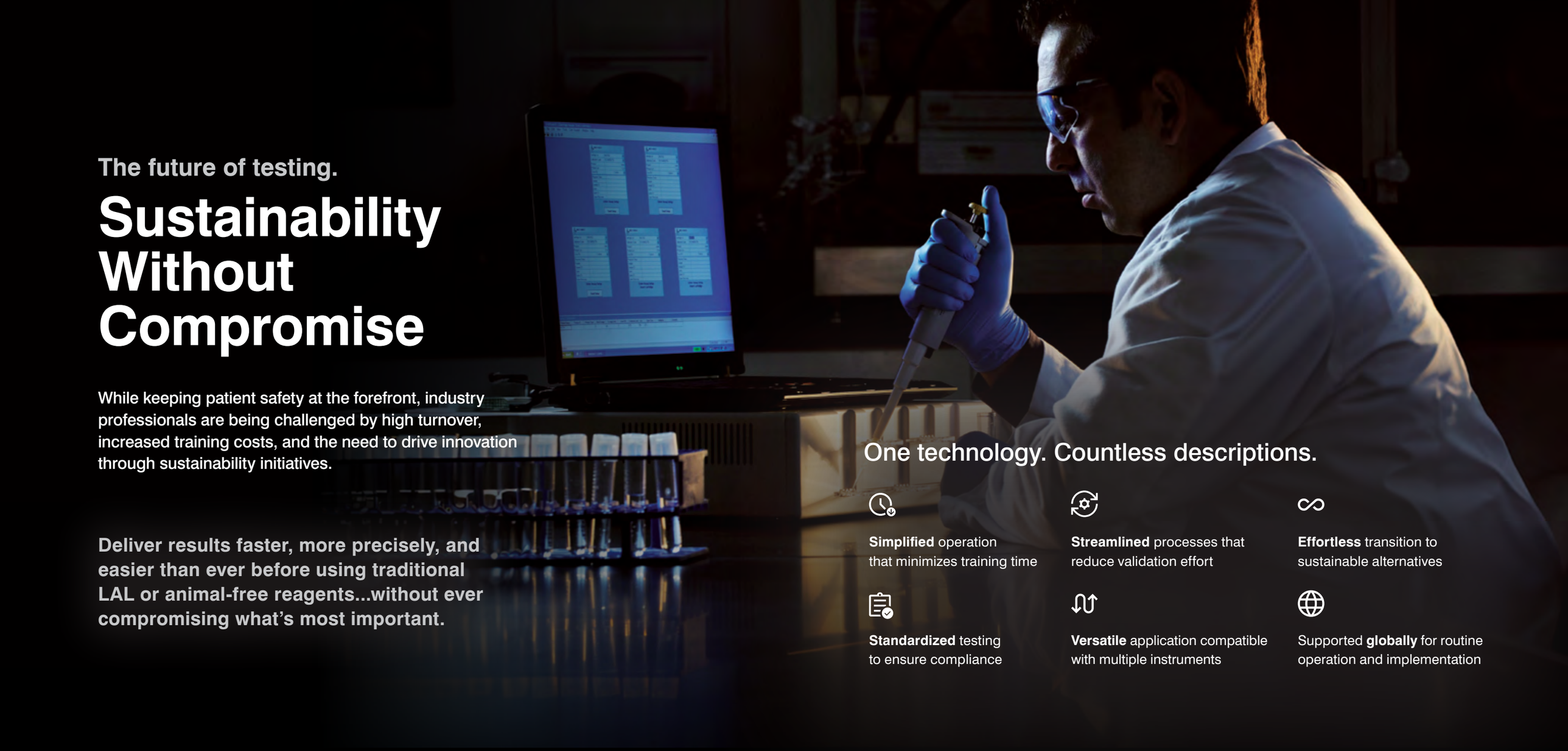


The future of testing.

Sustainability Without Compromise

While keeping patient safety at the forefront, industry professionals are being challenged by high turnover, increased training costs, and the need to drive innovation through sustainability initiatives.

Deliver results faster, more precisely, and easier than ever before using traditional LAL or animal-free reagents...without ever compromising what's most important.

One technology. Countless descriptions.

Simplified operation that minimizes training time

Streamlined processes that reduce validation effort

Effortless transition to sustainable alternatives

Standardized testing to ensure compliance

Versatile application compatible with multiple instruments

Supported **globally** for routine operation and implementation

Endosafe® LAL Cartridges

The trusted solution that set the standard.

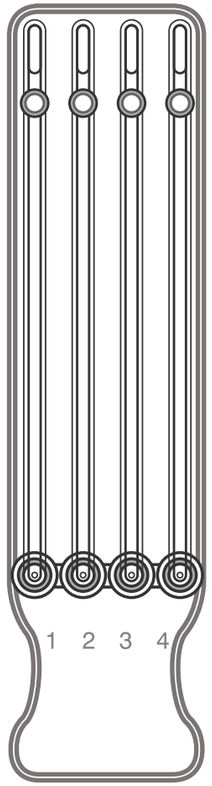
For over two decades, LAL cartridges have delivered peace of mind across multiple industries. As a compendial-based method, implementing cartridges is simple, delivering the highest sensitivity while using 95% less horseshoe crab material than traditional LAL, gel-clot, and turbidimetric methods. It's no wonder why it's become the go-to solution for routine BET.

What makes these cartridges the industry standard?

Approximately 15-minute kinetic chromogenic LAL results boost efficiency

FDA-licensed LAL cartridges ensure regulatory compliance since 2006

Uses archived standard curve to minimize human error



Quantitative ranges, 0.5 to 0.005 EU/mL, 1 to 0.01 EU/mL, 5 to 0.05 EU/mL, 10 to 0.1 EU/mL

Reduces manual steps, reagent and glass waste, and costs, minimizing environmental impact

Compatible with Endoscan-V™ for streamlined endotoxin data management

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Endosafe® Trillium™ rCR Cartridges

Sustainable by design, with flexibility in mind.

Never before has it been easier to implement a routine, animal-free, sustainable solution. Endosafe® Trillium™ recombinant cascade reagent (rCR) cartridges, powered by a full 3-Factor enzymatic cascade, replicate the natural Limulus reaction. Fully compatible with existing Endosafe instruments and software, Trillium cartridges deliver all the same benefits while simultaneously driving commitment to the 3Rs (Replace, Reduce, and Refine).

The Trillium Difference

Simplified workflows minimize error with fewer steps than other recombinant options

Available in quantitative ranges 1 to 0.01 EU/mL, 5 to 0.05 EU/mL

Delivers quicker results compared to any other recombinant methods and boosts operational efficiency

Cuts glassware and eliminates reagent waste furthering sustainability efforts

Wide quantitative range meets diverse sample testing needs

Archived standard curves in rCR reduce errors and increase reliability

Eliminates false positives that can be caused by Beta-Glucans, enhancing result integrity

Industry Accepted. Regulatory Approved.

With over 20 million cartridges manufactured, it is currently utilized for raw material, in-process, and final release testing across thousands of products worldwide.

Since receiving its FDA license in 2006, Endosafe LAL Cartridges have been widely adopted as a kinetic chromogenic method aligned with USP <85>, and Ph. Eur. 2.6.14. Holding an FDA Biologics License Application (BLA) license means we are held to the same standards that you or any other biologics manufacturer are expected to adhere to, and ensure the quality and safety of our products.

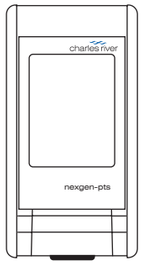
Approved for use in testing the following product applications

- Pharmaceutical products
- Biologicals
- Nuclear medicine samples
- Dialysis samples
- Pharmaceutical water systems
- Stem cell materials
- Cleaning validations
- Medical devices
- Compounded products

One Cartridge. Three Robust Platforms.

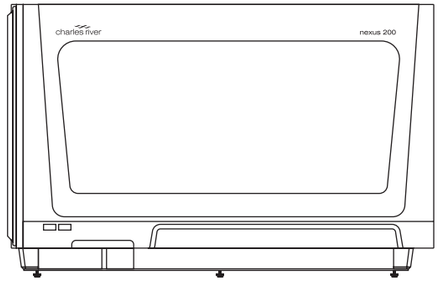
Extensive cross-compatibility to meet your needs.

All cartridges are compatible with nexgen-PTS™, nexgen-MCS™, and Nexus 200™, allowing for enhanced testing versatility, integration, and scalability. This compatibility reduces equipment needs and streamlines processes, boosting efficiency and cutting costs.



Endosafe® nexgen-PTS™

Endosafe® nexgen-MCS™



Endosafe® Nexus 200™

Scalable integration through our suite of instruments

Endosafe® nexgen-PTS™

for point-of-sample testing

- Handheld spectrophotometer: portable, suitable for at-line testing
- Quickly analyze rush samples and raw materials
- Real-time data analysis with enhanced reporting features
- Secured with password protection and FDA-compliant user management
- Glove compatible, easy touchscreen operation

Endosafe® nexgen-MCS™

for higher sample throughput

- Stackable benchtop system analyzes multiple cartridges simultaneously in approximately 15 minutes
- Independent sample runs eliminate batch sampling necessity
- EndoScan-V calculates endotoxin levels and assay acceptance criteria

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Endosafe® Nexus 200™

for fully automated testing

- Fully automated walkaway robotic system
- Up to 120 diluted or undiluted samples per run
- Bar-coding technology enhances accuracy, reducing data management errors
- Enhances data integrity with full audit trail, minimizing regulatory non-compliance risks
- Powered by EndoScan-V software allowing for LIMS integration and improved traceability, security, and data management

Quality Controlled for Your Quality Control

The Archived Standard Curve (ASC)

Each batch of cartridges including FDA licensed LAL-cartridges features a pre-established standard curve, analyzed via regression for specific endotoxin concentrations, significantly reducing preparation time, variability, and uncertainty commonly associated with other BET. Each lot is rigorously tested for accuracy and precision, accompanied by a unique calibration code and Certificate of Analysis, ensuring high confidence and reliability in your daily BET consumables.

Beta-Glucan Cartridges

The Beta-glucan assay is a rapid, in-process test designed for investigational purposes to ensure that products do not contain (1,3)-β-D glucans. Glucans are known to cause false-positive results in LAL assays, which could trigger an investigation.

Beta-Glucan Cartridges Specifications

Sensitivity range of 10-1,000 µg/mL

Results in approximately 30 minutes

Measures color intensity in a kinetic method, similar to LAL assays

Our commitment to conservation doesn’t stop.

Protecting the Atlantic horseshoe crab.

We have a responsibility to preserve, protect, and live harmoniously with the animals that share our planet.

As your trusted partner, we shoulder the responsibility of providing sustainable solutions that align with global initiatives and bolster your own sustainability endeavors. That’s why we have developed a comprehensive portfolio of bacterial endotoxin testing solutions that serve your specific needs while simultaneously embracing patient safety and a sustainable future. With the release of Trillium, we’ll continue our advocacy and protection of *Limulus* species.

Reducing Horseshoe Crab Raw Material Usage

Gel-Clot LAL

0%
reduction
Kinetic Turbidimetric LAL*

54%
reduction
Kinetic Chromogenic LAL*

95%
reduction
LAL Cartridge Technology*

100%
replacement
Recombinant Cascade Reagent (rCR)*

*Compared to Gel-Clot LAL

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MICROBIAL SOLUTIONS

Endosafe® nexgen-MCS™

Key Features

- Test up to five samples simultaneously
- Samples run independently, allowing for random access
- High throughput for real-time results
- Uses FDA-licensed Endosafe®-PTS™ cartridges
- USP/EP BET-compliant
- Four levels of cartridge sensitivity: 0.005 EU/mL, 0.01 EU/mL, 0.05 EU/mL, 0.10 EU/mL
- Results can be obtained via EndoScan-V™ version 5.5.5 or higher
- Utilizes new cartridge locking mechanism to ensure accurate cartridge positioning

The Endosafe® nexgen-MCS™ is a multi-cartridge endotoxin detection system that utilizes FDA-licensed Endosafe®-PTS™ cartridges for fast, quantitative, and accurate endotoxin results. The nexgen-MCS™ comprises five individual spectrophotometers built into a unit with a single Ethernet connector that links to a desktop computer running EndoScan-V™ version 5.5.5 or higher, our 21 CFR Part 11-compliant ready endotoxin-measuring software. This benchtop test system can test up to five samples in about fifteen minutes.

Test Technology

The nexgen-MCS™ uses LAL kinetic chromogenic methodology that measures color intensity directly related to the endotoxin concentration in a sample. The disposable cartridges used to run an assay contain precise amounts of LAL reagent, chromogenic substrate, and control standard endotoxin (CSE). The cartridges are manufactured according to rigid standard operating procedures promoting test accuracy, consistency, and product stability.

Test Procedure

To perform the test, the user simply pipettes 25 μL of a sample (at a non-interfering dilution) into each of the four sample reservoirs of the cartridge. The reader draws and mixes the sample with the LAL reagent in two channels (the sample channels), and with the LAL reagent and positive product control in the other two channels (the spike channels). Lastly, the sample is mixed with a chromogenic substrate. After mixing, the change in color is measured and analyzed against an internally-archived standard curve.

The nexgen-MCS™ can test five cartridges simultaneously, or any combination from one to five. Samples are run independently, allowing for random access. Multiple nexgen-MCS™ or portable nexgen-PTS™ units can be connected to a single PC for high throughput of samples with real-time results. By design, the cartridge automatically performs a duplicate sample/duplicate positive product control LAL test, thereby satisfying the harmonized USP/EP Bacterial Endotoxin Test (BET) for LAL testing.

FDA-Licensed LAL Assay

The cartridge used with the nexgen-MCS™ system is approved by the FDA for in-process and final product release testing of biomedical products. The nexgen-MCS™ can streamline testing in the QC laboratory by effectively troubleshooting multiple problematic products and getting a quick read on stat samples and raw materials while still being fully capable of performing routine release testing. The nexgen-MCS™ is designed to be compliant with global pharmacopoeial methods and meets the BET criteria for photometric techniques. When used in conjunction with the nexgen-PTS™, the nexgen-MCS™ is a highly efficient tool, enabling real-time endotoxin testing consistent with the FDA's PAT initiative. If using another endotoxin detection method, validation of products on the nexgen-MCS™ can be accomplished by performing inhibition/enhancement on three batches of product.

With the increasing demand for a high-throughput automated system, we incorporated our multi-cartridge technology into a simple, walk-away robotic solution with the Endosafe® Nexus™. Designed specifically for endotoxin testing in the central QC lab and high-volume water testing or samples that require dilutions, the Nexus™ offers the unique opportunity to reduce technician time and maximize lab space while decreasing test variability. Once the deck is fully loaded, no supervision is required.

Data Analysis

With the nexgen-MCS™, data reporting is simple. At the conclusion of the test, the endotoxin measurement and assay acceptance criteria are calculated by EndoScan-V™ and displayed on a computer screen. The instrument can be used to detect endotoxin levels as low as 0.005 EU/mL. Detailed reports can be generated from the nexgen-MCS™ through EndoScan-V™ version 5.5.5 and higher to Charles River Cortex™ for detailed data analysis and tracking and trending. Reports can also be generated and signed within Cortex™ if required.

Endosafe® nexgen-MCS™ Service Programs

From regular maintenance and annual calibration to on-demand service contracts, our dedicated professionals are a single point of contact for all of your service requirements, providing superior, timely service delivery and a simple, streamlined process for obtaining support. Choose from the plans below, or contact our team for a program tailored to your needs.

Endosafe® nexgen-MCS™

Product Line	Product	Code
Endosafe® nexgen-MCS™	**Endosafe® nexgen-MCS™ instrument** Power supply Ethernet cable One-year warranty	MCS150K
	Endosafe® nexgen-MCS™ package Endosafe® nexgen-MCS™ instrument Power supply Ethernet cable One-year warranty	MCS650K
Endosafe® nexgen-MCS™ Accessories	**Eppendorf® 25 µL pipettor**	PTS700
Endosafe® nexgen-MCS™ Service and Support	**IQ/OQ/PQ document**	MCS975
	IQ/OQ/PQ service and kit	MCS902
	On-demand labor	MCS903
	Annual qualification service	MCS900
	Annual on-site qualification service plus on-site basic service	MCS905
	Annual qualification: Full service	MCS905FS
	Additional units for annual calibration certification	MCS906
	Additional units for annual qualification plus on-site basic service	MCS906A
	Additional units for annual calibration certification: Full service	MCS906FS

For spare or replacement parts, such as power cables and adapters, please contact your customer service representative.

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MICROBIAL SOLUTIONS

Endosafe® nexgen-PTS™

Cartridge Technology Applications:

- In-process sample testing
- Final drug product testing
- Nuclear medicine samples
- Dialysis samples
- Stem cell materials
- Pharmaceutical water systems
- Cleaning validations
- Medical devices
- Biomedical products
- Planetary protection (NASA)

The Endosafe® nexgen-PTS™ is a rapid, point-of-use handheld spectrophotometer that utilizes disposable cartridges for accurate, convenient, and real-time endotoxin testing, glucan concentration determination, and Gram identification. Using the same USP/BET-compliant test as the first-generation Endosafe®-PTS™, Charles River has implemented the advanced features of today's technology to address clients' needs for decreased assay run time, simplified data entry, reduced user variability, and enhanced administration control. The addition of a User Management function allows the nexgen-PTS™ to be 21 CFR Part-11 compliant ready. As with its predecessor, the flexible nexgen-PTS™ can be used in conventional quality control testing laboratories as well as at the point of sample collection. The system's portability and exceptionally fast results enhance testing programs and accelerate the drug development process.

Nexgen-PTS™ is fully compatible with Charles River Cortex™, our data management platform that provides an integrated solution to securely consolidate, query, and analyze all endotoxin data for internal QC and FDA-required trending reports. Providing a decentralized approach, Cortex™ allows for QA/QC control to manage all nexgen-PTS™ devices within the facility from one convenient location. This supports real-time data generation of critical in-process testing and the ability to compile data to make informed decisions about manufacturing processes rapidly and confidently.

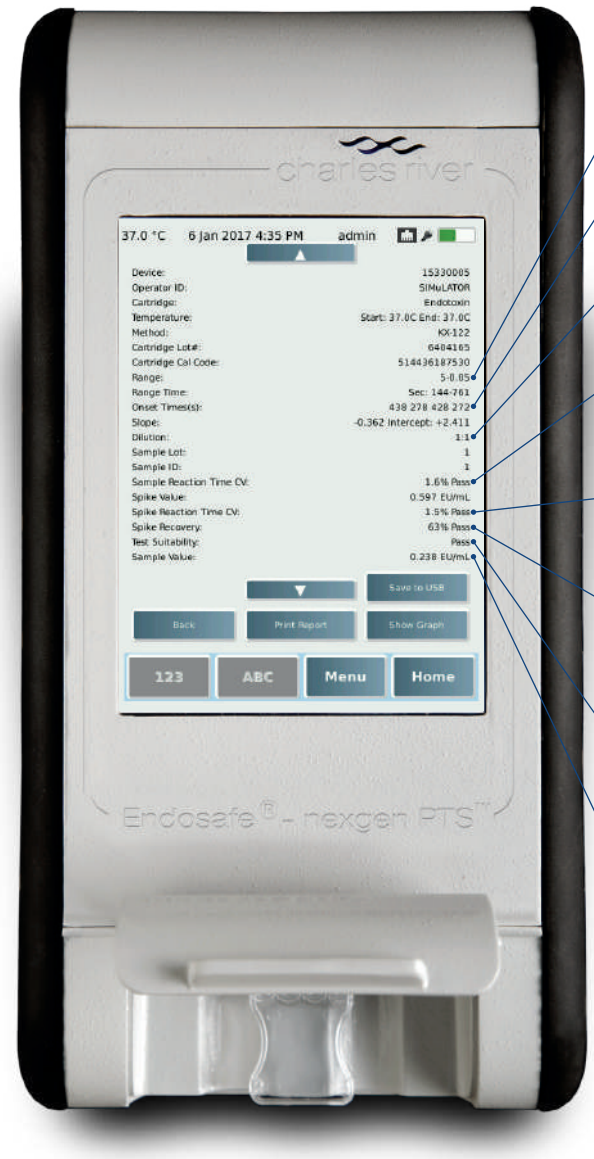
To perform a test using the nexgen-PTS™, the user simply pipettes 25 μL of a sample into each of the four sample reservoirs of the cartridge. The reader draws and mixes the sample with the LAL reagent in the sample channels in addition to the LAL reagent plus positive product control in the spike channels. The sample is combined with the chromogenic substrate then incubated. After mixing, the optical density of the wells is measured and analyzed against an internally archived standard curve. By design, the cartridge technology automatically performs a duplicate sample/duplicate positive product control LAL test, thereby satisfying the harmonized USP/EP bacterial endotoxin test (BET) for LAL testing. Results are displayed on the LCD screen and can be exported via Wi-Fi (for models equipped with a wireless module) or Ethernet for printing and analysis in LIMS or Charles River Cortex™ software.

EVERY STEP OF THE WAY

What's Included

- Endosafe® nexgen-PTS™ instrument
- Ethernet cable
- Power supplies (US, EU, & UK)
- USB cable adapter
- One-year warranty
- Stylus

Interpretation of Results



Cartridge sensitivity range
Lambda = lowest value (0.05)

Reaction time of 4 channels
1 & 3 are sample channels,
2 & 4 are spiked channels

Dilution factor/Concentration
1 = neat, 10 = 1:10, 100 = 1:100,
or 0.1 mg/mL, 0.01 mg/mL, etc.

CV % of channels 1 & 3
Represents variation in reaction times of the two sample replicates
Must be < 25% for a valid test result

CV % of channels 2 & 4
Represents variation in reaction times of the two spiked replicates
Must be < 25% for a valid test result

Spike recovery
Represents % of spike that was recovered in channels 2 & 4
Must be between 50% and 200% for a valid test result

Test suitability
Evaluates sample CV, spike CV, and spike recovery for validity and assigns a Pass/Fail. "Pass" indicates a valid test and the sample value can be trusted

Reported EU value for sample (factoring in dilution)
If sample is non-reactive, EU value = lambda multiplied by dilution factor or lambda divided by concentration

Spike Recovery

The spike is a known amount of endotoxin that acts as the positive control. This control serves as a check for interference (inhibition and enhancement). Inhibition and enhancement are conditions that adversely alter the recovery of endotoxin in a test sample. Inhibition presents itself as less than 50% spike recovery, where enhancement is typically greater than 200%. For a valid assay, the spike recovery value must be between 50% and 200%, thus indicating no significant interference from the test sample.

Product Specifications

- Temperature control: 37°C ± 1°C
- Operating temperature range: Room temperature
- Warm-up time: 5-10 minutes from 20°C start
- Battery life: 3-5 hours of operation post-charge
- Dimensions: 254 mm x 137 mm x 70 mm
- Weight: 3 lbs. (1.36 kg)
- Data communication and device ports:
  - 10/100 base-T Ethernet with auto detect (RJ-45 connector)
  - Wireless 802.11 b/g (with internal antenna)*
  - USB 2.0 (USB micro-B connector)

*Only applicable for models equipped with a wireless module.

System Features

Touchscreen Display

The oversized LCD color touchscreen replicates the straightforward, intuitive style clients are accustomed to with their electronic devices outside of the lab. The luminous screen and easily identifiable menu icons enable seamless navigation throughout the system so users can progress through the testing steps quickly and with ease. The touchscreen uses pressure-based technology that allows for functionality with gloves, supporting sterile precautions and preventing LAL test contamination.

User Profile Management

With three levels of user management (i.e., administrator, manager, and user), user profiles can be established to grant appropriate access to system operators. Administrative rights allow access to the entire system, including setup and setting changes. Managers can access the product database and configure operators. Users are able to run tests and view and print reports. Password protection adds an extra level of security, as well as 21 CFR Part 11 compliance conformity, prompting for login credentials before accessing and performing system functions.

Barcode Scanning

The optional 1D/2D barcode scanner speeds operations by eliminating the need to enter sample input and cartridge certificate information manually. Simple, one-button automated scanning eliminates costly data entry errors and streamlines processes.

Real-Time Data Analysis

The nexgen-PTS™ offers heightened sensing optics for faster sample detection, with the ability to adjust the sample size detection between 20–30 μL. (This function will need to be qualified by the end user in-house). In addition, the optimized sample centering places the sample in the best location for rapid measurement of the optical density of the wells. Operators can observe endotoxin measurement and assay acceptance criteria on the screen in real time, as data is analyzed. Final sample reaction data is likewise displayed on the screen and can be exported via USB, secure Wi-Fi (for models equipped with a wireless module), network-enabled printer, or automatically exported to Charles River Cortex™ software.

Enhanced Features for Reporting

With an internal storage capacity of over 8GB and expandable external USB storage, the nexgen-PTS™ can hold thousands of test reports. The newly added report restoration functionality makes it easy to access past reports through the test log and export them on demand for easier disaster recovery. For models equipped with a wireless module, these wireless capabilities allow for testing to be performed in a conventional quality control test laboratory setting or at the point of sample collection on the manufacturing floor, in addition to remote system access through Charles River Cortex™ for data export and printing dependent on the type of the printer. The proprietary endotoxin detection software version 10.2 ensures users are in full compliance with the requirements of the FDA's 21 CFR Part 11, with an optional signature section on report printout.

Cartridge Technology

The horseshoe crab-derived LAL reagent is the most sensitive and reliable method available for endotoxin testing, and with advancements in technology and decades of research and development, we've been able to greatly reduce the amount of LAL utilized in our proven cartridge technology. By using only 1/20th of the lysate compared to a traditional assay, this technology allows us to support humane practices and optimize our resources while reducing the impact on horseshoe crab populations.

Applications

FDA-Licensed LAL Cartridges

The nexgen-PTS™ utilizes the Endosafe®-PTS™ cartridges to perform a kinetic chromogenic assay that measures a color intensity directly related to the endotoxin concentration in a sample. Each cartridge contains precise amounts of LAL reagent, chromogenic substrate, and control standard endotoxin (CSE). Cartridges are manufactured according to rigid standard operating procedures, promoting test accuracy, consistency, and product stability. The cartridges are licensed by the FDA and accepted by USP/EP for testing raw materials and in-process samples as well as final products. The nexgen-PTS™ provides significant advantages over traditional LAL test methods while employing validated and proven LAL technology. The PTS™ cartridges, when used with the nexgen-PTS™ reader, can be used in the QC laboratory to effectively troubleshoot problematic products and to get a quick read on STAT samples and raw materials. The nexgen-PTS™ is designed for compliance with global pharmacopoeial methods and meets the BET criteria for photometric techniques.

Gram Identification Cartridges

Our Gram ID cartridge technology is a rapid assay that measures differences in the cell walls of microbial isolates. As an automated stain-free assay, the Gram ID cartridge eliminates technician variability that can occur in traditional Gram stain determination, which involves multiple reagent steps and interpretation of results. Technicians simply load a different isolate preparation into each of the four reservoirs of the disposable cartridge. The reader draws and mixes the sample and measures the optical density of the reaction. Within 3-7 minutes, results will indicate if the isolated organism is Gram negative bacteria, Gram positive bacteria, or yeast/mold and can effectively test organisms that are less than 72 hours old, reducing the need to subculture. The Gram ID cartridge is an objective assay that makes identifications based on the physiological composition of the cell walls, not on the uptake of dyes by organisms that have been fixed onto a microscope slide. This unique detection method reduces the opportunity for incorrect or Gram-variable results that occur due to varying physiological properties of the bacterial cell wall, thereby improving the accuracy of a Gram stain determination.

Glucan Assay Cartridges*

The glucan assay is a rapid, in-process test designed for investigational purposes to ensure that products do not contain (1,3)-β-D glucans. Glucans are known to cause false-positive results in LAL assays, which could trigger an investigation. Our glucan cartridges allows users to quickly and easily quantify Beta-glucans, leading to better process monitoring and faster out-of-specification (OOS) resolutions. The disposable glucan cartridges have a sensitivity range of 10-1,000 pg/mL, and yield results in approximately 30 minutes. This assay is in addition to the glucan blocking buffer that we offer for those compounds that are known in advance to have a strong possibility of containing Beta-glucans. The cartridge technology employs the Limulus enzyme cascade to detect (1,3)-β-D glucan in a sample. The cartridge and its interface with the reader have been designed to mimic kinetic chromogenic methods by measuring color intensity directly related to the (1,3)-β-D glucan concentration in a sample. Each cartridge contains precise amounts of glucan-specific LAL formulation, chromogenic substrate, and glucan standard.

Endosafe® nexgen-PTS™ Service Programs

From regular maintenance and annual calibration to on-demand service contracts, our dedicated professionals are a single point of contact for all of your service requirements, providing superior, timely service delivery and a simple, streamlined process for obtaining support. Choose from the plans below, or contact our team for a program tailored to your needs.

*Cannot be used for diagnostic purposes.

Endosafe® nexgen-PTS™

Product Line	Product	Code
Endosafe® nexgen-PTS™	**Endosafe® nexgen-PTS™ instrument** Ethernet cable One-year warranty Power supply USB cable adapter Stylus	PTS150K
Endosafe® nexgen-PTS™ Accessories	**Zebra Symbol barcode scanner**	FGD-000012
	Zebra Technologies QLn™ 320 printer kit Zebra printer Power supply and cable USB cable 1 roll printer paper	PTS320K
	Zebra printer paper	PTS325
	nexgen-PTS™ protective reader case	PTS609
Endosafe® nexgen-PTS™ Service and Support	**Annual calibration certification**	PTS900
	Annual calibration certification: Full service	PTS900FS
	IQ/OQ/PQ kit	PTS902
	IQ/OQ/PQ on-site	PTS902S
	On-demand repair services: Labor only	PTS903
	Annual calibration certification: On-site service	PTS905
	Annual calibration certification: On-site full service	PTS905FS
	Each additional unit for annual calibration certification	PTS906
	Each additional unit for annual calibration certification: Full service	PTS906FS

For spare or replacement parts, such as power cables and adapters, please contact your customer service representative.

Endosafe® LAL Cartridges

Product Line	Product		Code
Endosafe® LAL Cartridges	**10 single packs of inhibition/enhancement screening cartridges***		PTS220
	10 single packs of cartridges (FDA-licensed)	Sensitivity EU/mL	
		0.1	PTS201F
		0.05	PTS2005F
		0.01	PTS2001F
		0.005	PTS20005F
	10 single packs of cartridges*	0.1	PTS201
		0.05	PTS2005
		0.01	PTS2001
	Multi-packs of 25 cartridges 5/pouch (FDA-licensed)	0.05	PTS5505F
		0.01	PTS5501F
		0.005	PTS55005F
Endosafe® Glucan Assay and Gram ID Cartridges	**Gram ID cartridges*** (10/pack)		LRMMGI100
	Beta-Glucan cartridges* (10/pack)		RMMGS1000

* Not licensed by the FDA.

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