

Wako

Wako Chemicals USA, Inc.

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LAL Reagent Products for Detection of
BACTERIAL ENDOTOXIN



Endotoxin Test Related Accessories

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Control Standard Endotoxin

Our Control Standard Endotoxin is a lyophilized product composed of 500 ng of endotoxin, purified from E. Coli UKT-B strain, that serves as an accurate and dependable standard for endotoxin testing.

Product features

- Endotoxin derived from E.coli UKT-B
- Can be used to prepare controls and standard curves
- RSE/CSE ratios supplied to match specific lots of LAL
- Can be used for depyrogenation validation
- Reconstituted CSE can be stored at 2-10°C for 1 month



| Catalog Number | Contents |
|----------------|-----------------------|
| CSE4037-5006 | 6 vials (500 ng/vial) |

Bio Clean® Series

Wako's premiere collection of endotoxin-free pipette tips, test tubes and caps specifically designed for worry free endotoxin testing on our Toxinometer® ET-6000 system.

Bio Clean® Endotoxin-free Pipette Tips

Product features

- Endotoxin-free pipette tip (<0.005 Eu/tip)
- Individually packaged, ideal for use in clean rooms
Packaging film features dust-free protection
- Sterilized by gamma irradiation (25kg ray)
- Tips fit Finnpiquette digital micro pipetters
- (20-200ul or 100-1000ul sizes)



| Catalog Number | Product Name | Volume Size | Quantity |
|----------------|------------------------|-------------|----------|
| 290-31451 | BioClean® Tip 200 | 200 µl | 200 tips |
| 294-31351 | BioClean® Tip 1000 | 1000 µl | 100 tips |
| 298-32851free | BioClean® Tip Extend S | 200 ul | 100 tips |

Bio Clean® Endotoxin-free Test Tubes and Aluminum Caps



Product features

- For use with Toxinometer® ET-6000
- Endotoxin-free tubes and caps depyrogenated at 250 °C

| Catalog Number | Product Name | Dimensions | Quantity |
|----------------|------------------------------------|--------------|----------|
| 292-32751 | Limulus Test Tube-S w/Aluminum Cap | 12 x 75mm | 80 pcs |
| 293-26551 | Limulus Test Tube-S | 12 x 75mm | 100 pcs |
| 293-28251 | Aluminum Cap-S | 14.7 x 18 mm | 100 pcs |

Gel Clot Reaction Tubes

Our Gel Clot Reaction Tubes are made of high quality borosilicate glass and certified free of interfering endotoxins and glucans.

Product features

- Endotoxin-free test tubes (<0.001 EU/tube)
- Designed for Gel Clot testing
- Made with borosilicate glass



| Catalog Number | Product Name | Quantity |
|----------------|--|-----------------|
| CT-1075 | Gel Clot Reaction Tube | 200 tubes / pkg |
| CT-1075C | Gel Clot Reaction tube w/ Aluminum Cap | Pcs / pkg |

LAL Reagent Water

Wako proudly provides high-quality, endotoxin free water ideal for all of your LAL testing needs.



Product features

- Endotoxin-free water (<0.001 EU/mL)
- Steam sterilized by USP standards
- Derived from water for injection, USP
- Non LAL reactive

| Catalog Number | Product Name | Quantity |
|----------------|------------------------------|-------------------|
| LRW-12100 | Lysate Reagent Water, 100 mL | 12 x 100 mL vials |
| LRW-2030 | Lysate Reagent Water, 30 mL | 20 x 30 mL vials |



Endotoxin Extracting Solution for LAL Test

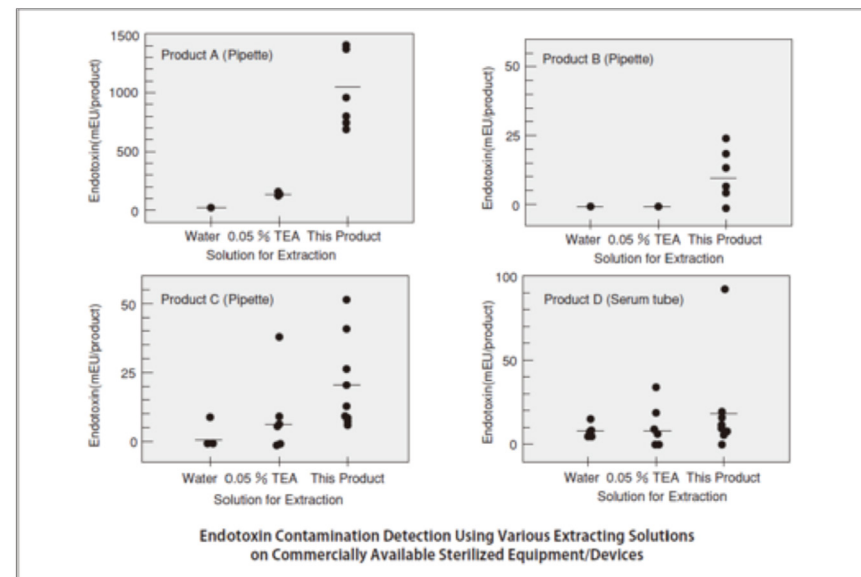
Traditionally, water or saline solution has been used to extract endotoxin in tests on medical devices and equipment; however, the efficacy of this extraction method has recently come into question. In order to provide our customers with a more reliable method for medical device testing, Wako has developed an endotoxin free extracting solution containing human serum albumin (HSA) that is capable of extracting endotoxins which cannot be extracted in water or saline solution.

Product features

- Capable of extracting endotoxins from surfaces which cannot be extracted in water or saline
- Recommended for use in endotoxin testing on equipment and devices which may come into contact with fluids containing blood or protein.



| Catalog Number | Contents |
|----------------|-----------------|
| 293-51601 | 4 x 10 mL vials |





Wako Chemicals USA, Inc.

Wako Chemicals USA, Inc. is a wholly owned subsidiary of Wako Pure Chemical Industries, Ltd. of Japan; a company world renowned for its high purity chemicals.

As a central theme in our management philosophy, Wako Chemicals strives to fulfill our social obligations to both our employees and the community, while providing products that meet or exceed our customer's requirements; thus consistently aiming to create a company whose products are trusted by our customers worldwide. Today, Wako Chemicals USA, Inc. consists of the following divisions: Specialty Chemicals, Clinical Diagnostics, Laboratory Reagents, Automation, and LAL, all of which strive to maintain excellence in product quality, customer service, and customer satisfaction.

Community and Involvement

As a company dedicated to protecting the environment and to providing a safe and healthy work place for our valued employees, Wako participates in organizations with this goal in mind. Wako is an active participant in "Business for the Chesapeake Bay" organization, which aims to reduce the release of chemicals into the Chesapeake Bay and its rivers.

Wako is also involved in several organizations within the community and industries that are related to our products. These organizations are The Virginia Biotechnology Association, The American Institute of Chemical Engineers, and The Greater Richmond Technology Council.

In addition, the employees band together to participate in several charitable events in our community throughout the year. These include Chesterfield Christmas Mother, Susan G. Komen Race for the Cure, and the American Heart Association Heart Walk.

Virginia wastewater excellence award 2010, 2011, 2012, 2013



FM 582849



Member of Virginia SHARP
(Safety and Health Achievement
Recognition Program)

Greetings from Wako Chemicals USA, Inc.

Since the establishment of our first satellite sales office in Dallas, TX (1981), to the construction of our corporate headquarters and manufacturing facilities in Richmond, VA (1989), Wako Chemicals USA has strived to provide customers in all scientific disciplines with products of the utmost quality and dependability.

Long recognized as a world-renowned supplier of high purity chemicals and reagents, our company continues to maintain a proud history of product quality and customer service through the establishment of the LAL Division, and the introduction of our new PYROSTAR™ ES-F line for the detection of bacterial endotoxin.

This publication represents the culmination of more than 30 years of research and development, dedicated to providing our customers with endotoxin-specific reagents for "every user and for every method."

We invite you to review our catalog and look forward to having the opportunity to serve you.

Our Promise

As an FDA licensed facility, Wako Chemicals USA, Inc. – LAL Division is committed to ensuring that our production site and LAL reagents comply with all the rules, regulations, and quality standards set forth by FDA for current Good Manufacturing Practices (cGMP's).

Horseshoe Crab Conservation



Wako Chemicals USA, Inc. is very much concerned with maintaining the viability of the horseshoe crab population. We are dedicated to following practices that ensure the careful handling and good quality of crabs used for LAL manufacture that both minimize injury and protect this invaluable species. After bleeding, the crabs are returned the next day by our fishermen to the same waters where they were collected. To assist in the collection of data for crab conservation studies, Wako USA participates in a horseshoe crab tagging and monitoring program coordinated by the U.S. Fish and Wildlife Service.



Wako Chemicals USA, Inc. - Cape Charles Bleeding Facility: Cape Charles, Virginia 23310