

Wako

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PYROSTAR™

LAL Reagent Products for Detection of
BACTERIAL ENDOTOXIN



**Toxinometer®
Measurement System**

Wako

Wako Chemicals USA, Inc.

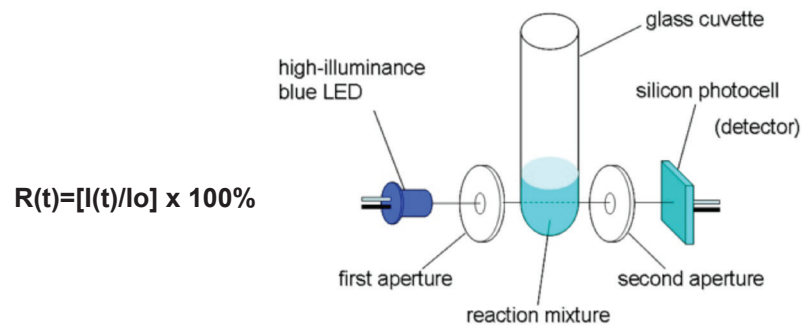
Toxinometer® ET-6000 - Endotoxin Measurement System

The Toxinometer® ET-6000 is our new computer-operated kinetic incubating tube reader, which is exceptionally user-friendly and easily expandable. Depending on the number of samples to be processed, our state of the art expansion modules can be connected to allow for endotoxin testing in a wide range of fields and sample quantities.



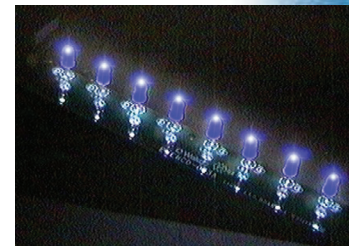
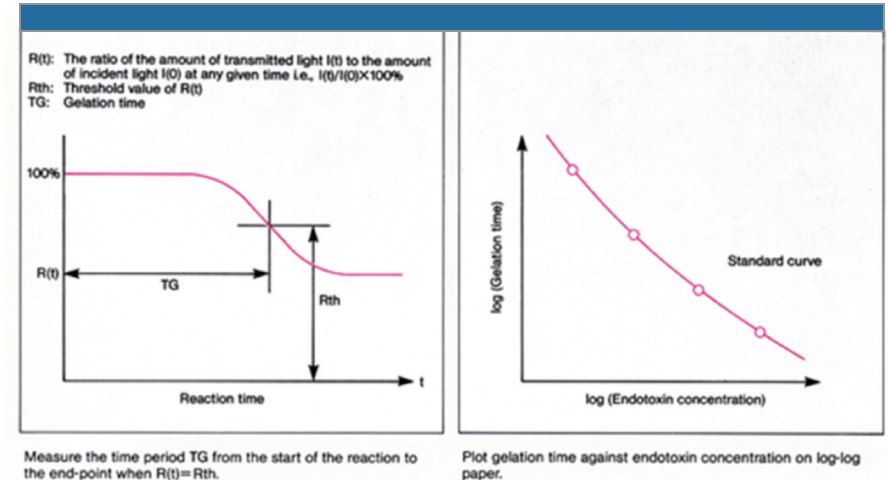
Toxinometer® Measurement Principle

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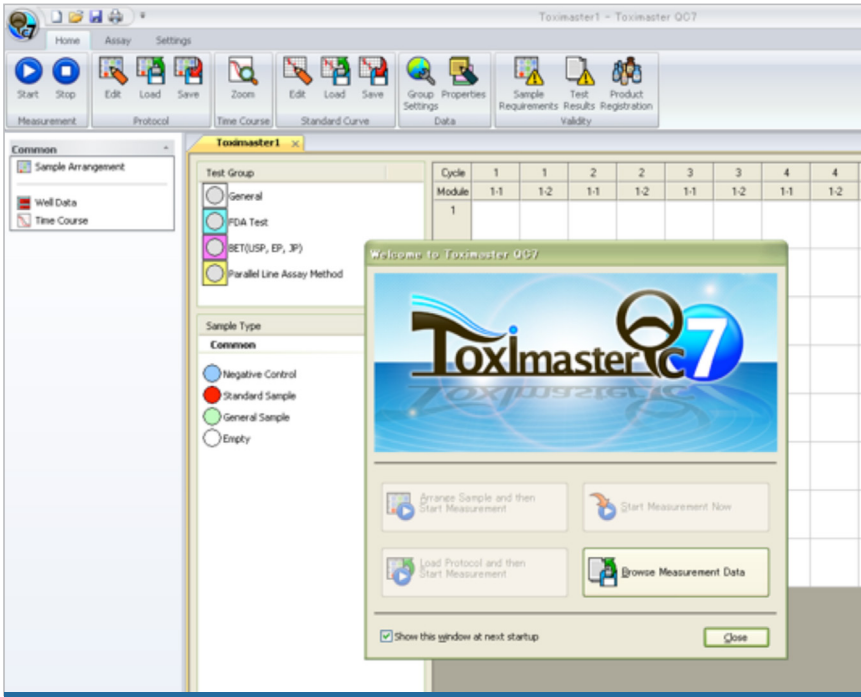
The ratio of the light intensity $I(t)$ to the light intensity at an early stage of the reaction I_0 is defined as $R(t)$, and the threshold $R(th)$ of $R(t)$ is determined. Based on this, the Toxinometer® reads the period from the start of the reaction to the point at which $R(t)$ reaches $R(th)$ as the gelation time T_g or the activation time T_a .

Toxinometer® Measurement Principle



Toximaster® QC7 Software

The Toxinometer® ET-6000 measurement system is supplied with our exclusive, state of the art QC7 software package that allows for efficient routine work and high-quality data analysis. The software comes pre-loaded on the Toxinometer® system for immediate use and is fully compliant with FDA 21CFR, Part 11 requirements.



Product Features

Kinetic Incubating Tube Reader

- For use in kinetic-turbidimetric, kinetic-chromogenic, and gel-clot assays
- A single assay module can simultaneously measure up to 16 samples
- Expansion modules are available to extend number of samples in multiples of 16
- Temperature settings at both 30°C and 37°C
- Endotoxin determination in compliance with FDA guidelines as well as with Pharmacopeal (USP/EP/JP) BET monographs
- Toximaster QC7 - State of the art software
 - FDA 21CFR, Part 11 Compliant
 - Allows trending of product results over time
 - Allows early detection of potential product failures
 - Generates hard copy printouts documenting assay parameters and sample results
 - Test to completion without intervention
 - Develop automated assay systems with ease
 - Offers improved precision and accuracy over the gel clot method

Catalog No.	Model	Power Source	Contents
293-33509	Toxinometer® ET-6000/U Part 11 Set	100-120 +/- 10% VAC (USA)	1 Toxinometer® ET-6000 Toximaster QC7 Software w/5 User Licenses
290-33519	Toxinometer® ET-6000/E Part 11 Set	220-240 +/- 10% VAC (Europe)	1 Personal Computer System Validation Doc.
293-33989	Toxinometer® ET-6000/U Non- Part 11 Set	100-120 +/- 10% VAC (USA)	1 Toxinometer® ET-6000 Toximaster QC7 Software w/1 User License
299-33969	Toxinometer® ET-6000/E Non- Part 11 Set	220-240 +/- 10% VAC (Europe)	1 Personal Computer
297-33529	Toxinometer® ET-6000/U Expansion Module	100-120 +/- 10% VAC (USA)	16 well expansion unit
294-33539	Toxinometer® ET-6000/E Expansion Module	220-240 +/- 10% VAC (Europe)	16 well expansion unit



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