

[www.genscript.com](http://www.genscript.com)

# Endotoxin detection and removal system

---

Endotoxin free world  
from GenScript

---



# ENDOTOXIN DETECTION SOLUTIONS

## ToxinEraser™ Endotoxin Detection System



Guaranteed high-sensitivity:  
as low as 0.005 EU/ml



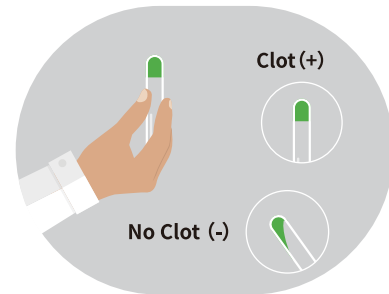
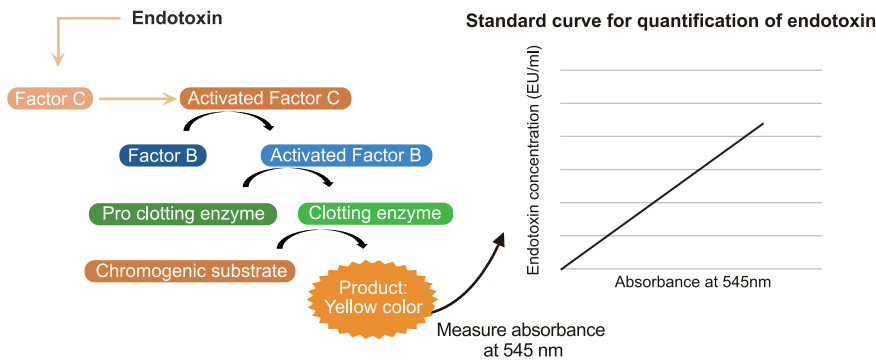
Ready to use reagents and  
materials



Strong linearity and  
reproducibility



Can be widely used in in  
vitro end-product  
endotoxin tests



### ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit

Detects endotoxin in  
a broad range (0.005–1 EU/ml).

### ToxinSensor™ Gel Clot Endotoxin Assay Kit

Fast qualitative test showing a positive or  
negative result.

## Selection guide

	ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit	ToxinSensor™ Gel Clot Endotoxin Assay Kit	ToxinSensor™ Single Test Kit
<b>General Introduction</b>	This kit utilizes chromogenic LAL assay to quantitatively detect endotoxin in a broad range.	This kit is a convenient endotoxin qualitative test based on gelation principle.	This kit is a one-step qualitative endotoxin test; various sensitivities are available.
<b>Application</b>	Accurately determine endotoxin levels	End-product endotoxin qualitative detection	One-step end-product endotoxin qualitative detection
<b>Sensitivity</b>	0.005EU/ml – 1EU/ml	0.25 EU/ml	0.015 EU/ml- 0.25 EU/ml
<b>Reconstitute LAL with LAL Reagent Water</b>	Yes	Yes	No
<b>Need Spectrophotometer</b>	Yes	Yes	No
<b>Kit Components</b>	Ready-to-use reagents Endotoxin-free tips & tubes	Ready-to-use reagents Endotoxin-free tips & tubes	Ready-to-use reagents
<b>Sample Requirement</b>	Colorless and Clear liquid	N/A	N/A
<b>Size</b>	L00350C (16 rxns) L00350 (32 rxns)	L00351 (40 assays)	L00447 - L00451 (20/ 40 assays)

## Frequently Asked Questions

### 1. What pH should I set my sample at? What should I adjust it with?

The pH of the sample should be at pH 6-8 to ensure good linearity. Consequently, we recommend adjusting pH value using sodium hydroxide (0.1 N, dissolved in LAL reagent water) or hydrochloric acid (0.1 N, dissolved in LAL reagent water) if necessary.

### 2. Why is it important to vortex standard endotoxin solution?

Endotoxin can adhere to the surface of glassware, yet this problem can be mediated by vortexing. The endotoxin standard solution should be vigorously vortexed for 15 minutes prior to making dilutions, and repeat the vortex step each time before making dilutions, not just after reconstitution. Each standard endotoxin dilution should be vortexed for at least one minute prior to using.

### 3. Can I use plastic ware when I prepare standard endotoxin solution?

Endotoxins adhere strongly to glassware and are difficult to remove completely during washing. Standard laboratory autoclaving procedures have little or no effect on endotoxin levels. Heating glassware at 180°C overnight is recommended to destroy any attached endotoxin molecules. We recommend you to only use new plasticware tubes which are certified to be endotoxin-free when you prepare standard endotoxin solution. GenScript supplies ToxinSensor™ Endotoxin-free Tubes (Cat. No. M01072) for you to dilute or aliquot samples. Endotoxin adheres to plastic surfaces more strongly than glass surfaces

### 4. Is standard endotoxin solution reusable after developed (color formed)?

No. Standard endotoxin solution should be prepared fresh for each test.

### 5. How to run an endotoxin detection assay for medical devices?

Infuse 15 ml of endotoxin-free water into the lumen of medical device (e.g. infusion apparatus, dialysis tubing, etc.) and shocks five times, seal all the ends and incubate it at 37°C water bath for 2 hours, then transfer the water to an endotoxin-free vial. Detect the endotoxin concentration in the water by using ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit (Cat. No. L00350), and the total endotoxin value in the water can be determined.

## Ordering information

Catalog No.	Product Name	Size
L00350C	ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit	16 rxn
L00350	ToxinSensor™ Chromogenic LAL Endotoxin Assay Kit	32 rxn
L00351	ToxinSensor™ Gel Clot Endotoxin Assay Kit	1 kit
L00448-40	ToxinSensor™ Single Test Kit - 0.03 EU/ml	40 assay
L00448-20	ToxinSensor™ Single Test Kit - 0.03 EU/ml	20 assay
L00449-40	ToxinSensor™ Single Test Kit - 0.06 EU/ml	40 assay
L00449-20	ToxinSensor™ Single Test Kit - 0.06 EU/ml	20 assay
L00450-40	ToxinSensor™ Single Test Kit - 0.125 EU/ml	40 assay
L00450-20	ToxinSensor™ Single Test Kit - 0.125 EU/ml	20 assay
L00451-40	ToxinSensor™ Single Test Kit - 0.25 EU/ml	40 assay
L00451-20	ToxinSensor™ Single Test Kit - 0.25 EU/ml	20 assay

# ENDOTOXIN REMOVAL SOLUTIONS

## ToxinEraser™ Endotoxin Removal Kit



High stability



High removal efficiency  
(as low as 0.1 EU/ml)



High binding capacity:  
> 2,000,000 EU/ml (CV)



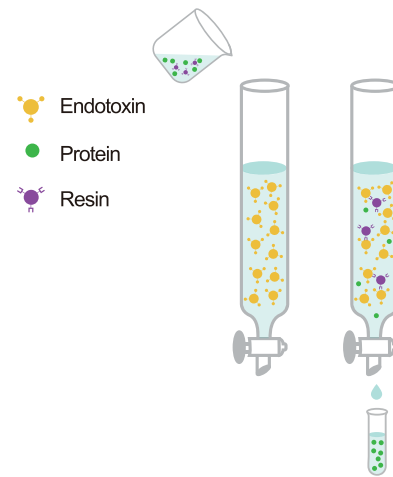
Maximum sample recovery yield  
(>90% minimal sample lost)

### GenScript ToxinEraser™ Endotoxin Removal Kit

based on the affinity matrix of modified polymyxin B (PMB), which allows highly efficient endotoxin removal. The final endotoxin level can be decreased to **as low as 0.1 EU/ml**

\* with repeat use of ToxinEraser™ endotoxin removal resin.

\*final removal efficiency may vary depending on the sample type/source.



### Ordering information:

Catalog No	Product Name	Size
L00338	ToxinEraser™ Endotoxin Removal Kit	1 kit
L00402	ToxinEraser™ Endotoxin Removal Resin	1mL
M01072-5	ToxinSensor™ Endotoxin-free Tubes	5 tubes
M01072-40	ToxinSensor™ Endotoxin-free Tubes	40 tubes
M01072-10	ToxinSensor™ Endotoxin-free Tubes	10 tubes
M01063	ToxinSensor™ Endotoxin-free Pipette Tips (1 ml, Blue)	1 Pk
M01053	ToxinEraser™ Regeneration Buffer	125 mL
M01054	ToxinEraser™ Equilibration Buffer	125mL