

# EndoLISA®

## Endotoxin detection based on ELISA-technology

EndoLISA® is a new method for determination of endotoxin (LPS) levels where high-affinity binding of endotoxin by LPS-specific phage protein is followed by endpoint fluorescence measurement.

The microtiter plate-based assay format is one of the major advantages of EndoLISA®, as a result of which potentially interfering substances such as organic solvents, chaotropic substances and detergents are removed by a washing step.

This enables the EndoLISA® user to precisely determine the endotoxin level without matrix effects, without the need for dilution and with a very broad measurement range.



## EndoLISA® benefits

- Overcomes limitations of existing methods, such as the need for extensive dilution
- Reduced matrix effects due to integrated washing step
- Robust assay with excellent reproducibility
- Broad measurement range (0.05-500 EU/ml)
- Broad pH range (pH4 - pH9)
- Less interference at high salt conditions e.g. NaCl, GdnHCl
- All reagents necessary to run the assay included in the kit
- Saves the diminishing horseshoe crab population

## EndoLISA® endotoxin detection standard curve

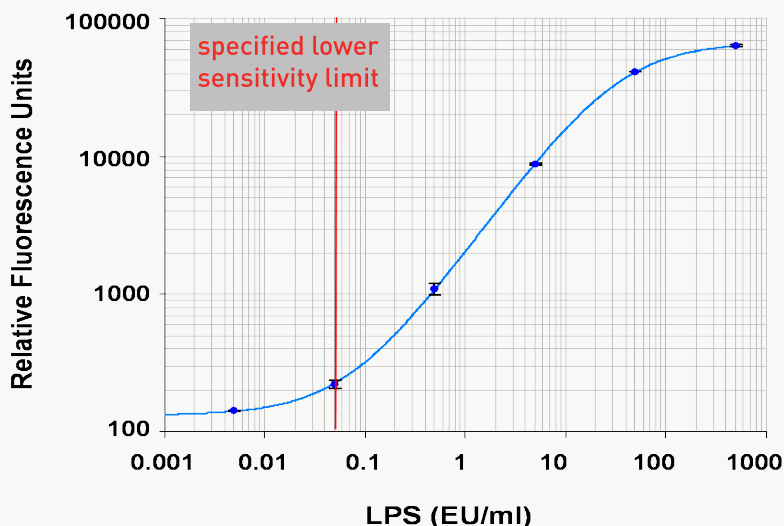


Figure left:  
Standard curve of the EndoLISA® test; concentrations of the LPS standard are plotted against the relative fluorescence signal. EU, endotoxin unit.

## EndoLISA® correlation with LAL-Assay

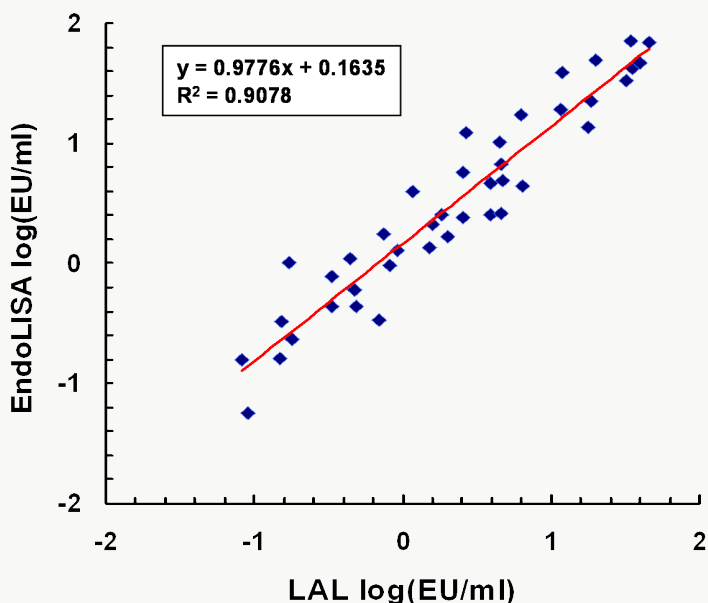


Figure left:  
Correlation plot of EndoLISA® versus LAL-assay where multiple LPS preparations and dilutions from different bacteria such as *E. coli*, *Salmonella* and *Pseudomonas*, including LPS of mutant strains, were compared. The endotoxin was determined quantitatively according to the manufacturer's instructions and the results (EU/ml) were plotted against each other. The comparison shows that EndoLISA® correlates well with the commercially available LAL-assay, with a correlation coefficient of 0.9078.

## EndoLISA® product format

192 tests, all reagents needed for running the assay included in the kit:

- EndoLISA® plates, pre-coated microtiter strips
- Endotoxin-free Water
- Binding Buffer
- Endotoxin Standard
- Wash Buffer
- Enzyme
- Substrate
- Assay Buffer
- Cover foils

Find out more on [www.endolisa.com](http://www.endolisa.com)