

## Product Information

### Human lipopolysaccharide (LPS) ELISA kit (0.5-16 pg/mL)

**Cat. No.:** X23-10-YM066

**Size:** 48T; 96T

**Synonym:** Human LPS ELISA kit

**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	Human lipopolysaccharide (LPS) ELISA kit, an enzyme-linked immunosorbent assay, has the ability to detect levels of human LPS as low as 0.1 pg/mL and its detection range is 0.5-16 pg/mL.
<b>Assay Principle</b>	Human lipopolysaccharide (LPS) ELISA kit is specifically designed for measuring the level of human LPS in a given sample. To perform the assay, purified human LPS antibodies are used to coat the wells of a microtiter plate, creating a solid-phase antibody. Next, the LPS sample is added to the wells, resulting in the binding of LPS molecules to the antibodies. The antibodies are labeled with HRP, forming an antibody-antigen-enzyme-antibody complex. After thorough washing, a TMB substrate solution is added to the wells, causing the TMB substrate to undergo an HRP enzyme-catalyzed reaction, leading to a color change to blue. To terminate the reaction, a sulphuric acid solution is added, and the resulting color change is measured using a spectrophotometer at a wavelength of 450 nm. Finally, the concentration of Porcine LPS in the samples can be determined by comparing the optical density (O.D.) of the samples to a standard curve.
<b>ELISA Type</b>	Sandwich ELISA kit
<b>Assay Type</b>	Sandwich ELISA kit
<b>Assay Target</b>	LPS
<b>Species Reactivity</b>	Human
<b>Components</b>	Closure plate membrane; Sealed bags; Micro ELISA stripplate; Standard; HRP-Conjugate reagent; Sample diluent; Chromogen solution A; Chromogen solution B; Stop solution; Wash solution
<b>Sample Type</b>	Serum, plasma, tissue homogenates and other biological fluids
<b>Detection Method</b>	Colorimetric, OD 450 nm
<b>Assay Range</b>	0.5-16 pg/mL
<b>Sensitivity</b>	0.1 pg/mL
<b>Precision (Intra-Assay)</b>	CV <10%
<b>Precision (Inter-Assay)</b>	CV <15%
<b>Recovery</b>	>95%



<b>Cross-reactivity</b>	No significant cross-reactivity or interference was observed.
<b>Applications</b>	Human lipopolysaccharide (LPS) ELISA kit can be used to measure the level of human LPS in serum, plasma, tissue homogenate and other biological fluid samples.
<b>Storage</b>	Store at 2-8°C.

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