



Human Lipopolysaccharides, LPS ELISA Kit

| | |
|-----------------------------|---|
| Product Code | CSB-E09945h |
| Abbreviation | LPS |
| Target Name | Lipopolysaccharides, LPS |
| Product Type | ELISA Kit |
| Immunogen Species | Homo sapiens (Human) |
| Sample Types | serum, plasma, tissue homogenates |
| Detection Range | 6.25 pg/mL-400 pg/mL |
| Sensitivity | 1.56 pg/mL |
| Assay Time | 1-5h |
| Sample Volume | 50-100ul |
| Detection Wavelength | 450 nm |
| Lead Time | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. |
| Research Area | Others |
| Quality Control | <p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p> |
| Tag Info | quantitative |
| Protein Description | Sandwich |
| Component | <p>An assay plate --- The 96-well plate is composed of 12 x 8 strip plates and can be taken apart.</p> <p>Two bottles of lyophilized standard --- Reconstitute one bottle of the standard with sample diluent at dilution series and draw the standard curve.</p> <p>Biotin-labeled LPS antibody (100 x concentrate) 1 x 120 µl --- Act as the detection antibody and need to be diluted before use.</p> <p>HRP-avidin (100 x concentrate) 1 x 120 µl --- Catalyze the TMB substrate for color development and need to be diluted before use.</p> |



Biotin-antibody Diluent 1 x 15 ml --- Dilute the Biotin-antibody.
 HRP-avidin Diluent 1 x 15 ml --- Dilute the HRP-avidin.
 Sample Diluent 1 x 50 ml --- Reconstitute the standard and dilute the sample to an appropriate concentration.
 Wash Buffer (25 x concentrate) 1 x 20 ml --- Wash away the unbound solution and non-specific substances.
 TMB Substrate 1 x 10 ml --- Act as the chromogenic agent. HRP catalyzes TMB, eliciting the solution turns blue.
 Stop Solution 1 x 10 ml --- Add stop solution and stop the color development. The solution color immediately turns from blue to yellow.
 Four Adhesive Strips(For 96 wells) --- Seal the microplate when incubation.
 An instruction manual

Description

This Human LPS ELISA Kit was designed for the quantitative measurement of Human LPS protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL .

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
 Three samples of known concentration were tested twenty times on one plate to assess.
 Inter-assay Precision (Precision between assays): CV%<10%
 Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human LPS in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

| ? | Sample | Serum(n=4) |
|-----|-----------|------------|
| 1:1 | Average % | 88 |
| | Range % | 82-94 |
| 1:2 | Average % | 95 |
| | Range % | 91-99 |
| 1:4 | Average % | 92 |
| | Range % | 87-96 |
| 1:8 | Average % | 94 |
| | Range % | 89-99 |

Recovery

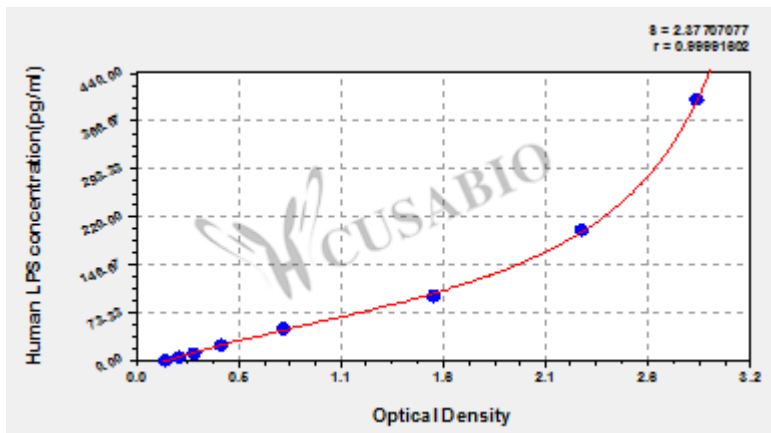
The recovery of human LPS spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| | Sample Type | Average % Recovery | Range |
|--|-------------------|--------------------|-------|
| | Serum (n=5) | 93 | 90-97 |
| | EDTA plasma (n=4) | 88 | 82-96 |



Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



| pg/ml | OD1 | OD2 | Average | Corrected |
|-------|-------|-------|---------|-----------|
| 400 | 2.809 | 2.960 | 2.885 | 2.720 |
| 200 | 2.227 | 2.366 | 2.297 | 2.132 |
| 100 | 1.515 | 1.556 | 1.536 | 1.371 |
| 50 | 0.789 | 0.755 | 0.772 | 0.607 |
| 25 | 0.432 | 0.470 | 0.451 | 0.286 |
| 12.5 | 0.303 | 0.325 | 0.314 | 0.149 |
| 6.25 | 0.235 | 0.232 | 0.234 | 0.069 |
| 0 | 0.164 | 0.165 | 0.165 | ? |

Msds

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