

HBT ELISA TEST KIT FOR LIPOPOLYSACCHARIDE BINDING PROTEIN OF A WIDE VARIETY OF SPECIES

The Hbt lipopolysaccharide binding protein (LBP) kit has been developed for the relative quantitative measurement of natural and recombinant LBP of a wide variety of species in serum, plasma and culture medium. Measurable species are: bovine, canine, human, monkey, rabbit, rat, sheep and swine. For quantification Human LBP is used as reference standard.

PRINCIPLE OF THE TEST

The Hbt LBP ELISA test kit is a solid-phase enzyme-linked immunosorbent assay based on the sandwich principle. The Hbt LBP ELISA test consists of a microtiter plate that is coated with an antibody to LBP that is reactive with LBP of a wide variety of species. This antibody interacts with LBP in such configuration that LBP is still highly reactive with endotoxin. The binding of LBP to the plate is detected with labeled LPS. During the incubation of the samples and the standard LBP is captured by the solid bound antibody. Unbound material present in the sample and standard is removed by washing. Next biotinylated LPS is added to the wells. If LBP was present in the sample, biotinylated LPS will bind to the captured LBP. The excess biotinylated LPS is removed by washing. Next a streptavidin-peroxidase conjugate is applied to the wells, this conjugate reacts specifically with biotinylated LPS bound onto the detected LBP. The excess streptavidin-peroxidase conjugate is removed by washing and substrate, tetramethylbenzidine (TMB) is added to the wells. Colour develops proportionally to the amount of LBP present in the sample. The enzyme reaction is stopped by the addition of citric acid and the absorption at 450 nm is measured with a spectrophotometer. A standard curve is obtained by plotting the absorptions versus the corresponding concentrations of the known standards. The LBP concentration of samples with unknown concentrations, which are run concurrently with the human LBP standards, can be compared with the human LBP standard curve

SPECIAL FEATURES OF THE KIT

- Ready-to-use (i.e. pre-coated microwells).
 - High reproducibility
 - Efficient format. One plate with twelve 8-well strips allow free choice of batch size for the assay.
 - Simple, rapid procedure. Four pipetting steps are required to complete the assay. Working time 3½ hours.
- Large measurable concentration range. Human standard curve from 1.6 - 100 ng/ml

AVAILABILITY

The Hbt LBP test for a wide variety of species is available in a kit for 1 x 96 determinations.

PRODUCT NUMBER: HK503

Hbt LBP ELISA Kit for a wide variety of species

For research purposes only.

Caution: Not for use in humans.