

HBT ELISA TEST KITS FOR HUMAN BPI, BACTERICIDAL PERMEABILITY INCREASING PROTEIN

The Hbt Human BPI kits have been developed for the quantitative measurement of natural and recombinant Human BPI in serum, plasma and culture medium.

PRINCIPLE OF THE TEST

The Hbt Human BPI ELISA test kit is a solid-phase enzyme-linked immunosorbent assay based on the sandwich principle. Samples and standards are incubated in microtiter wells coated with antibodies recognizing Human BPI. During this incubation Human BPI is captured by solid bound antibody. Unbound material present in the sample is removed by washing. Next biotinylated second antibody (tracer) to Human BPI is added to the wells. If BPI was present in the sample, the tracer antibodies will bind to the captured BPI. The excess tracer is removed by washing. Next a streptavidin-peroxidase conjugate is applied to the wells, this conjugate reacts specifically with the biotinylated tracer antibody bound onto the detected BPI. 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 human BPI 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 human BPI concentration of samples with unknown concentrations, which are run concurrently with the standards, can be determined from the standard curve.

SPECIAL FEATURES OF THE KIT

- Ready-to-use (i.e. pre-coated microwells).
- High specificity.
- High reproducibility
- High sensitivity. The minimum concentration which can be measured is 250 pg/ml of BPI.
- Large measurable concentration range. Standard curve from 100-25,000 pg/ml.
- Efficient format. Two plates with each 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 4½ hours.

AVAILABILITY

The Hbt Human BPI tests are available in kits for 2 x 96 determinations.

PRODUCT NUMBER: HK314

Hbt Human BPI ELISA Kit

For research purposes only.

Caution: Not for use in humans.