



HBT ELISA TEST KIT FOR HUMAN TNF-alpha

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

PRINCIPLE OF THE TEST

The Hbt Human TNF-alpha 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 TNF-alpha. During this incubation Human TNF-alpha is captured by solid bound antibody. Unbound material present in the sample is removed by washing. Next biotinylated second antibody (tracer) to Human TNF-alpha is added to the wells. If TNF-alpha was present in the sample, the tracer antibodies will bind to the captured TNF-alpha. 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 captured TNF-alpha. 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 TNF-alpha 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 TNF-alpha 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 10 pg/ml of TNF-alpha.
- Large measurable concentration range. Standard curve from 8-2,000 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 3½ hours.

AVAILABILITY

The Hbt Human TNF-alpha tests are available in kits for 2 x 96 and 10 x 96 determinations.

PRODUCT NUMBER: HK307 Hbt Human TNF-alpha ELISA Kit

Also available:

PRODUCT NUMBER: DK1307 Hbt Human TNF-alpha DECA Kit, complete ELISA reagent set for 10 x 96 determinations.

For research purposes only.
Caution: Not for use in humans.