

HBT ELISA TEST KIT FOR HUMAN GAMMA INTERFERON IN SERUM/PLASMA

This Hbt Human Gamma Interferon kit has been developed for the quantitative measurement of natural or recombinant human gamma interferon in human serum and plasma.

PRINCIPLE OF THE TEST

The Hbt Human Gamma Interferon test is a solid-phase enzyme-linked immunosorbent assay based on the sandwich principle.

The microwells have been pre-coated with a mouse monoclonal antibody recognizing human gamma interferon. Samples or standards are incubated in the microwells for a specified incubation period, during which human gamma interferon is bound to the solid phase. Unbound materials present in the sample are removed by washing.

Next a pre-formed detector complex consisting of a biotinylated second monoclonal antibody to human gamma interferon and a streptavidin-alkaline phosphatase conjugate is then added to the wells.

If human gamma interferon was present in the sample, the detector complex is bound to the solid phase.

After a further incubation the excess detector complex is removed by washing and a PNPP substrate solution is added to the wells.

Colour develops proportionally to the amount of human gamma interferon present in the sample.

The enzyme reaction is stopped by the addition of NaOH and the absorbance at 405 nm is measured spectrophotometrically. A standard curve is obtained by plotting the absorbance versus the corresponding concentration of the standards.

The human gamma interferon concentration of unknowns, which are run concurrently with the standards can be determined from the standard curve.

SPECIAL FEATURES OF THE KIT

- Ready-to-use (ie. pre-coated microwells).
- High specificity for human gamma interferon due to the use of two monoclonal antibodies directed against different epitopes on the interferon molecule.
- High sensitivity. The minimum concentration which can be measured is 20 pg/ml. One unit corresponds with 100 pg pure natural human gamma interferon.
- Large measurable concentration range. Standard curve from 0-5000 pg/ml.
- Efficient format. Twelve disposable 8-well strips allow free choice of batch size for the assay.
- International Standardization. The calibration standards have been standardized against NIH ref. human gamma interferon Gg-23-901-530.
- Simple, rapid procedure. Only three pipetting steps are required to complete the assay. Working time 3-4 hours.
- High reproducibility.

AVAILABILITY

The Hbt Human Gamma Interferon tests in serum/plasma are available in kits for 96 determinations.

PRODUCT NUMBER: HK030S (Hbt Human Gamma Interferon ELISA Kit for human serum)

Also available: Hbt Human Gamma Interferon tests in culture medium

PRODUCT NUMBER: HK030M (Hbt Human Gamma Interferon ELISA Kit for media)

For research purposes only.

Caution: Not for use in humans.