

HBT ELISA TEST KIT FOR RAT GAMMA INTERFERON

The Hbt Rat Gamma Interferon kit has been developed for the quantitative measurement of natural or recombinant rat gamma interferon in medium, serum and plasma.

PRINCIPLE OF THE TEST

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

The microwells have been pre-coated with monoclonal antibody recognizing rat gamma interferon. Samples or standards are incubated in the microwells for a specified incubation period, during which rat 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 rat gamma interferon and a streptavidin-alkaline phosphatase conjugate is added to the wells.

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

Units are defined according to TNO laboratory standard. (H. Schellekens et al., 1980, J. Gen. Virol. 46, 243-247).

SPECIAL FEATURES OF THE KIT

- Ready-to-use (ie. pre-coated microwells).
- High specificity for rat 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 250 pg/ml. One unit corresponds with 250 pg pure recombinant rat gamma interferon.
- Large measurable concentration range. Standard curve from 0-10,000 pg/ml.
- Efficient format. Twelve disposable 8-well strips allow free choice of batch size for the assay.
- Simple, rapid procedure. Only three pipetting steps are required to complete the assay. Working time 3-4 hours.
- High reproducibility.

AVAILABILITY

The Hbt Rat Gamma Interferon tests are available in kits for 96 determinations.

PRODUCT NUMBER: HK010

For research purposes only.

Caution: Not for use in humans.