

HBT ELISA TEST KIT FOR MOUSE GAMMA INTERFERON

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

PRINCIPLE OF THE TEST

The Hbt Mouse 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 mouse gamma interferon. Samples or standards are incubated in the microwells for a specified incubation period, during which mouse 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 mouse gamma interferon and a streptavidin-alkaline phosphatase conjugate is then added to the wells.

If mouse 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 mouse 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 mouse 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 mouse 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 50 pg/ml. One unit corresponds with 175 pg pure recombinant mouse gamma interferon.
- Large measurable concentration range. Standard curve from 0-7000 pg/ml.
- Efficient format. Twelve disposable 8-well strips allow free choice of batch size for the assay.
- International Standardization. The calibration standards provided with the kit have been standardized against NIH ref. mouse gamma interferon Gg 02-901-533.
- Simple, rapid procedure. Only three pipetting steps are required to complete the assay. Working time 3-4 hours.
- High reproducibility.

AVAILABILITY

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

PRODUCT NUMBER: HK020

For research purposes only.

Caution: Not for use in humans.