

Heat Inactivated treatment on sera

CAT N°: XX-xxxH

For heat inactivated product the **letter H** is added at the end of the regular CAT n° serum whatever the specie.

E.g.: FB-1280 => FB-1280H / HO-290 => HO-290H

Analyses:

Tests and results are recorded on CoA.

Treatments:

Sera are heat inactivated to inactivate complement. The complement can lead to complement-mediated cell lysis. Immunological studies justify the need to heat inactivate the serum. The treatment is a heating of the serum at 56°C for 30 minutes.

This treatment can modify the colour of the serum. This is normal and it does not compromise the quality of the product for the cell culture.

Note: To heat the serum during a long period can reduce or destroy the growth factors. It can also increase the build of precipitates that are frequently confounded with contamination.

Effects of the heat inactivation:

- Destruction of proteins
- Precipitation of fibrin
- Destruction of fibrinogen
- Deterioration total or partial of vitamins
- Decrease of the growth factors concentration
- Destruction of the LDH
- Decrease of the amylase concentration
- Destruction of the alkaline phosphatase
- Deterioration of the IgG, IgE, IgM
- Inactivation of viruses
- Inactivation of T4 Phage
- Inactivation of mycoplasma
- Increase of oxidation and catalysis reactions.

Remarks:

All other parameters than the ones mentioned above remain equal and can be find in each regular (non-treated) serum TDS.