ClearLine	Technical data sheet Serum	Ref : 509502

Heat Inactivated treatment on sera

For heat the end of the regular CAT n° serum
(minus last digit)
E.g.: S0900 => S090H

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.

DOMINIQUE DUTSCHER SAS