

Application report light

Turbidity of Blood Plasma

SIGRIST product

- TurBiScat

Industry

- Pharmaceutical industry

Typical application

- The turbidity of blood plasma is measured to ensure perfect quality.
- Monitoring the filtration process; the blood plasma has to be free of solids.
- The measuring point is after the filter.
- Measuring range 0–20 NTU
- Scattered light 90°/25°

Use

- Blood plasma is used for the production of life-saving medication. Among other things, it is used in the treatment of cancer diseases and chronic diseases. Blood plasma can also be administered directly, e.g. in case of accidents or operations in which the patients suffer high losses of blood. Blood plasma is furthermore the starting material for blood plasma fractionation.

Additional information

Blood plasma constitutes approx. 55 % of the total blood volume and is a clear, yellowish liquid. It consists to about 91 % percent of water and to 9 % of nutrients, hormones, minerals and proteins. Blood plasma is obtain from blood containing an anticoagulant by centrifugation. Thus the plasma does not contain any blood cells but, different from blood serum, still all coagulation factors. The functions of blood plasma are blood clotting, defence against diseases, maintaining blood pressure and transport of hormones, nutrients etc.



TurbiScat on Varivent® with SICON



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