

Uses and Applications

These S-Monovettes contain polystyrene beads coated with a clotting activator (Silicate). As a rule, this coagulation additive enables the blood to clot after 20 to 30 minutes and the sample can be centrifuged. The beads form a reversible separating layer between the blood clot and the serum during centrifugation.

Apart from the beads this S-Monovette® contains a polyacrylic ester gel that, due to its specific density, forms a layer between the blood clot and the serum during centrifugation and serves as a diffusion barrier during transport and storage of the sample. Compliance with the recommended storage conditions will keep most of the parameters stable for a period of 48 hours.

Heparin, at an average concentration of 16 I.U./ml, is used as an anticoagulant for plasma generation. Heparin is coated onto plastic beads which form a reversible separating layer between the plasma and the corpuscular components during centrifugation.

EDTA K3 is pre-dosed as a liquid preparation in an average concentration of 1.6 mg EDTA/ml blood. The maximum dilution caused by the liquid preparation is lower than 1.0%. Although the EDTA preparation may dry up during storage this does not, in any way, impair its efficiency. An EDTA K2 gel is available for use in molecular virus diagnostics.

The S-Monovette® for glucose determination contains fluoride as a glycolysis inhibitor as well as liquid EDTA as an anticoagulant. The glucose concentration in the sample is stabilised for a period of 24 hours.

Citrate, pre-dosed as a 0.106 molar solution which is equivalent to a 3.2% trisodium citrate, is the anticoagulant of choice for all physiological coagulation studies (e.g. Quick, PTT, TZ, Fibrinogen). A dilution ratio of 1:10 (1 part citrate + 9 parts blood) must be strictly observed.

Citrate, pre-dosed as a 0.106 molar trisodium citrate solution is the anticoagulant of choice for ESR determination. A dilution ratio of 1:5 (1 part citrate + 4 parts blood) must be strictly observed. For ESR determination, we recommend the S-Monovette® Sediplex® system (Westergren method) and the enclosed S-Sedivette® system (modified Westergren method).