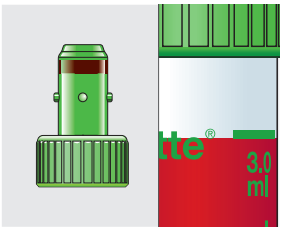
S-Monovette® – Important information on handling

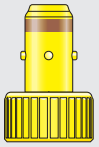
Precise filling volume for reliable measurement results

To avoid incorrect measurements or rejection of samples in the laboratory due to underfilling, we generally recommend filling up to the filling line, especially with the S-Monovette® Citrate, Fluoride and GlucoEXACT.



S-Monovette® Citrate

Underfilling changes the citrate concentration in the blood sample! As citrate binds calcium (factor IV), changes in the citrate concentration influence the analysis results.

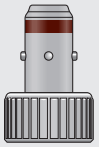


S-Monovette® Fluoride

The nominal volume **must be observed**, as otherwise an increase in the fluoride concentration will result in haemolysis!

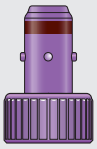
S-Monovette® EDTA

The EDTA concentration of S-Monovettes is 1.6 mg/ml*. ISO 6710 specifies an EDTA concentration of 1.2–2.0 mg/ml. This concentration range is only maintained if the filling volume **is more than 80%!**



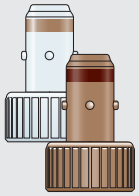
S-Monovette® GlucoEXACT

The nominal volume **must be observed** as the mixing ratio influences the analysis result due to the liquid preparation!



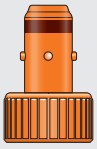
S-Monovette® ESR

Precise filling and **immediate and careful mixing** by inversion are required to ensure correct analysis. According to DIN 58935-1, the mixing ratio limit deviation may be ± 5 %.



S-Monovette® Serum/Serum Gel

For serum samples, the analysis results are not directly affected by underfilling. However, the **volume should be sufficient for all requested analyses** so that they can be carried out in full.



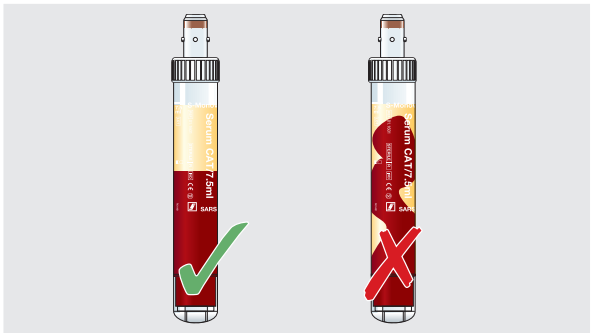
S-Monovette® Lithium Heparin/LH Gel/LH Gel+

Regardless of the manufacturer, underfilling of lithium heparin blood collection tubes, especially with large-volume tubes, can lead to changes in the analysis results, especially of heparin-sensitive tests (e.g. bromocresol purple (BCP) method for albumin). The change depends on the degree of underfilling, the amount of heparin in the tube (S-Monovette®: 16 IU/ml*) and whether and to what extent the patient is heparinised.

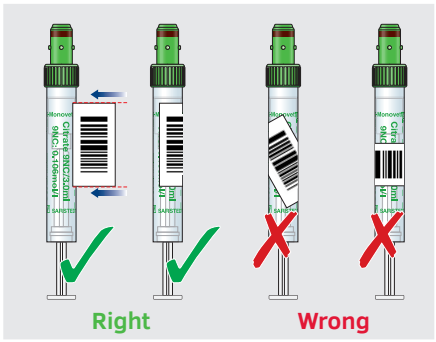
* Final concentration with correctly filled S-monovettes up to the filling line!

Carefully invert several times // Note on serum samples // Barcode labelling

Carefully invert the S-Monovettes several times immediately after taking the blood sample!



It is essential to keep the S-Monovettes Serum and Serum Gel **upright** during the clotting phase (the first 30 minutes after blood collection), otherwise a "sausage formation" will occur after centrifugation rather than a clean separation layer.



Correct barcode labelling guarantees reliable automatic identification of the sample and a stable TAT.

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