

We say STOP to haemolytic samples!



S-Monovette® - Minimises haemolysis rates

- Combines the advantages of Aspiration- and Vacuum systems*
- Suitable for all vein conditions
- Reduces repeated blood collection
- Cost and time-saving
- Optimal sample quality
- Patient friendly



* The S-Monovette® is a 2 in 1 System. When collecting blood from an IV cannula use the aspiration technique only.

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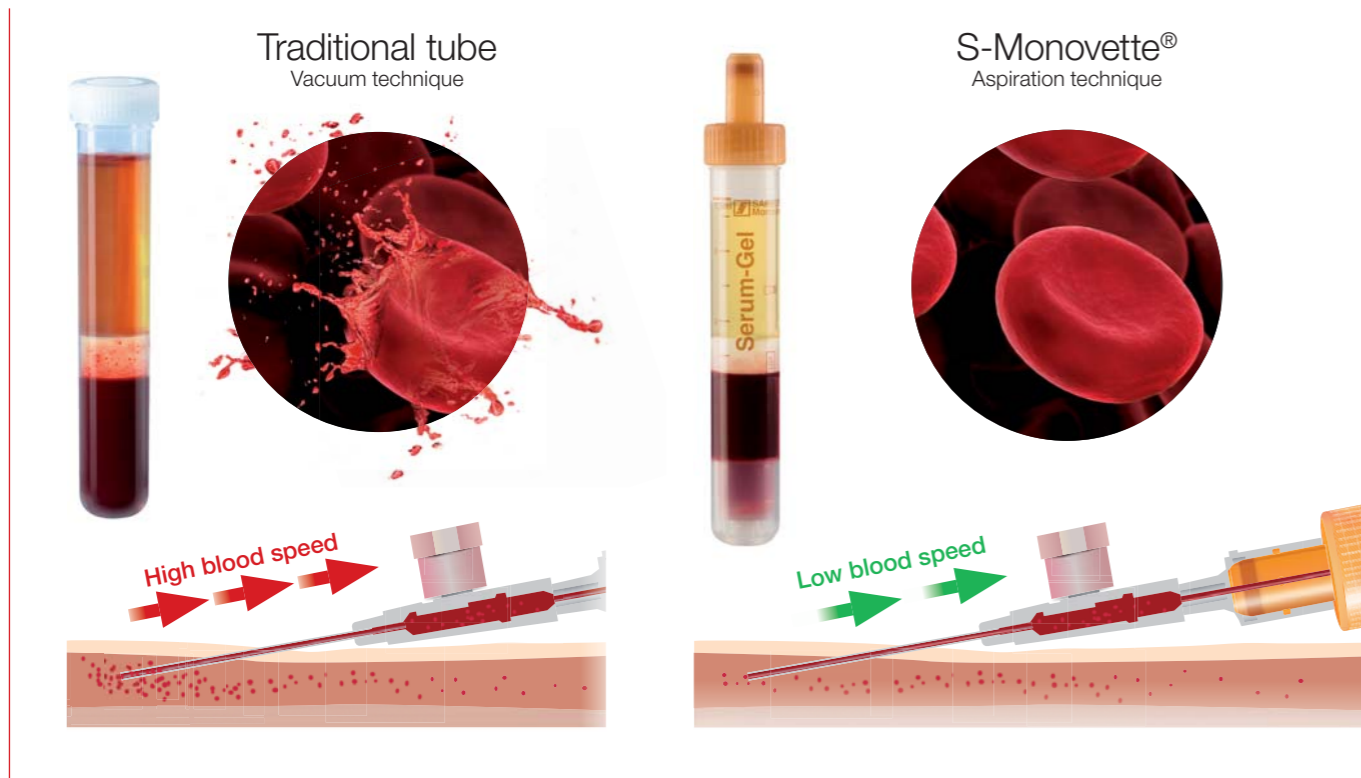
Haemolytic Samples

The most frequent reason for repeated blood collection in EDs



The risk of haemolysis

Vacuum technique vs. Aspiration technique



We say STOP to haemolytic samples!

S-Monovette®

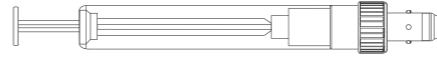

The optimum product for all challenges



S-Monovette®

The blood collection system proven to reduce haemolysis

Haemolysis rates using an IV catheter¹

Blood collection tube	Vacuum technique	Aspiration technique
 S-Monovette®	31 %	<2%
 Traditional tube	29 %	not possible

¹Prevention of hemolysis in blood samples collected from intravenous catheters

Lippi et al Clin Biochem 46: 561-564, 2013

Extract of reference literature



Prevention of hemolysis in blood samples collected from intravenous catheters.

Lippi et al *Clin Biochem* 46: 561-564, 2013

Critical review and meta-analysis of spurious hemolysis in blood samples collected from intravenous catheters.

Lippi et al. *Biochemica Medica* 23(2): 193-200, 2013

Hemolyzed specimens: a major challenge for emergency departments and clinical laboratories.

Lippi et al. *Critical Reviews in Clinical Laboratory Sciences* 48(3): 143-153, 2011

Effectiveness of practices to reduce blood sample hemolysis in EDs:
A laboratory medicine best practices systematic review and meta-analysis

Heyer et al *Clin Biochem* 45: 1012-1032, 2012

Obtaining blood samples from peripheral Intravenous Catheters: Best Practice?

Halm et al, *Am J Crit Care* 18: 474-478, 2009

Observational study to determine factors associated with blood sample haemolysis in the emergency department.

Ong et al *Ann Acad Med Singapore* 37: 745-8-564, 2008

Reducing blood sample hemolysis at a tertiary hospital emergency department.

Ong et al *Am J Med* 122(11): 1054.e1-e6, 2009

The Effect of Blood Drawing Techniques and Equipment on the Hemolysis of ED Laboratory Blood Samples.

Grant *MS J Emerg Nurs* 29: 116-121, 2003

Use of separate veniunctures for IV access and laboratory studies decreases hemolysis rates.

Straszewski et al *J Intern Emerg Med* 6(4): 357-359, 2011

Factors Affecting Hemolysis Rates in Blood Samples Drawn from Newly Placed IV Sites in the Emergency Department.

Dugan et al *J Emerg Nurs* 31(4): 338-345, 2005