BD BarricorTM yields **Quality**

BD Barricor[™] mechanical separator technology delivers a leading-edge collection and analytical process by eliminating separator artefacts that may interfere with analyte testing and which could lead to instrument downtime. This innovation helps deliver the highest diagnostic quality and patient care.

Results Reliability: Reducing fibrin/gel clotting events

Sample Purity: Reducing cell content in plasma

Quality Control: Enhanced control over sample quality

Process Impact: Sample quality directly influences processes



Possible causes for

Samples where

preanalytical phase was

26%

Clotting time

observed

fibrin formation¹

81%

Insufficient

BD Barricor™ as a plasma sample

Reliable & stable diagnostic processes are based on high quality samples capable to deliver clear results for clinical interpretation.

Plasma is a higher quality sample compared to serum. Advantages of Plasma, Kathrin Schlueter

"Good samples make good assays, good assays make good results"



Fibrin observed in

n = 7545

6%

fibrin

serum samples¹

94%

no fibrin



BD Barricor[™] – reduced cell counts

BD Barricor™ is a gel-free plasmabased blood collection tube with Lithium-Heparin. Plasma separation is achieved with our unique mechanical separator which is proven to yield a high quality sample for every analytical step.

Source: VS9195 (BD white paper)

BD Barricor[™] tube





Plasma gel tube

"After centrifugation, all tubes were gently mixed by repeated inversion to ensure resuspension of all residual cells above the separator"²



WBC count reduction of approx. 60% with respect to BD PST™ II



RBC count reduction of about 40%, with respect to BD PST™ II



PLT count reduction after prolonged centrifugation (7min. or 15min. @4000g)

How BD Barricor™ delivers higher quality plasma

BD Barricor[™] is a gel-free plasma-based blood collection tube with Lithium-Heparin. Plasma separation is achieved with our unique mechanical inner separator which is proven to yield a high quality sample for every analytical step.

Plasma gel tube



BD Barricor[™] – sample quality impacts

"When we talk about the pre-analytical quality, one of the most important aspects to consider is that all the issues originating in this phase can influence all the subsequent phases."



BD Barricor[™] has been designed to ensure optimal performance across the sample and laboratory work-flow, providing opportunities for improving the total cost of operations.



BD Barricor[™] is an innovative technology that provides greater confidence in the accuracy of laboratory results across a broad range of analytes enabling clinicians to act on reliable and credible results to deliver cutting edge care and service.



BD Barricor[™] delivers a faster time-to-result for all patients with no clotting time and a reduction in centrifugation time of up to 7 minutes.



Overall Sources: 14 manuscripts, 39 conference posters, 26 white papers & 5 customer communications



BD Barricor[™] yields Quality and much more: Efficiency, Accuracy and Fast Diagnosis.

You can discover how plasma mechanical separation leverages these benefits bringing a value to your processes bigger than the sum of the individual parts.

Ask your local BD representatives for more information and references on BD BarricorTM.



bd.com

To learn more, check the website of the BD Barricor[™] Scientific Forum: <u>http://lp.bd.com/Barricor-webinars.html</u>

Based on talks at BD Barricor[™] Scientific Forum, April 2018

- Schlueter K, Nauck M, Petersmann A, and Church S. Using BD Laboratory Consulting Services[™] to understand the impact of the preanalytical phase on sample quality and safety, a multi country perspective. Biochem Med (Zagreb), 2013; 23: 224
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