MICROPARTICLE FILTRATION UNIT

For Research Use Only





MICROPARTICLE FILTRATION UNIT

The new Ceveron® MFU 500 enables easy, quick and standardized removal of *MICROPARTICLES* from platelet poor plasma.

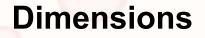


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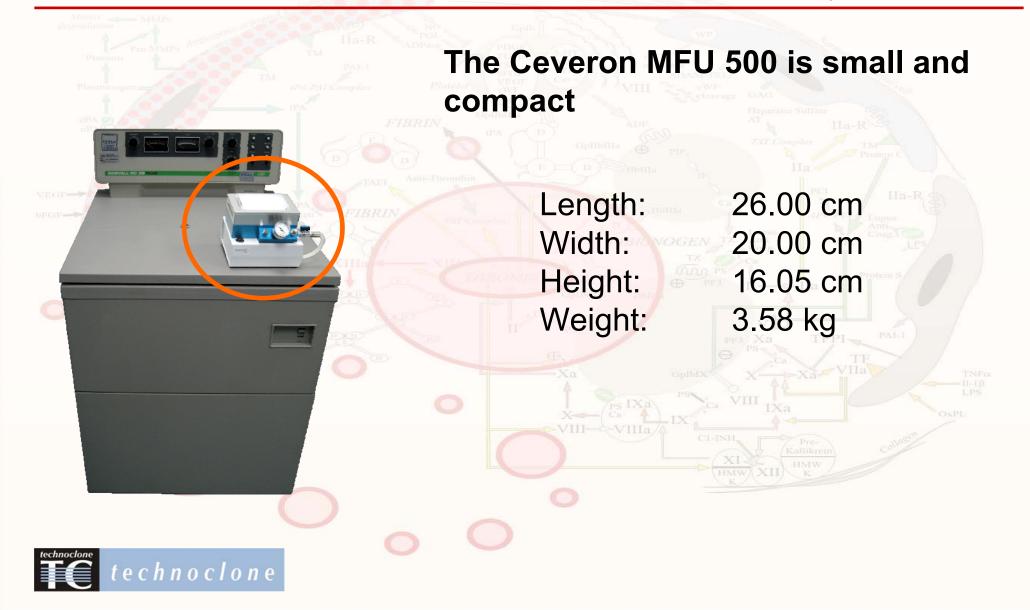
Microparticle free plasma MFP can be obtained:

➤as supernatant when PPP is centifuged for 30 minutes at 15000 x g

➢or by 2 minutes filtration with the Ceveron® MFU 500



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Ceveron MFU 500 consists of:

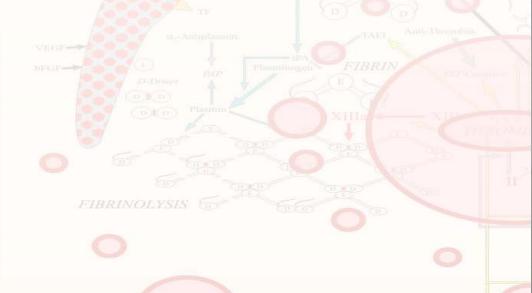
- 1. Filtration unit with vacuum pump and clock timer (not accessible)
- 2. "START" button
- 3. "PRESSURE EQUALIZATION" button
- 4. Manometer
- 5. Microtiter receiver plate for sample collection
- Microtiter filtration plate with 2µ low protein binding filter





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1. Pipette sample into the filter plate







Principle

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2. Push "START" button. Filtration starts automatically

3. Samples are filtered with a constant pressure in a definitive time





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4. After filtration is finished, push **"PRESSURE EQUALIZATION"** button ceveron (c) technoclone

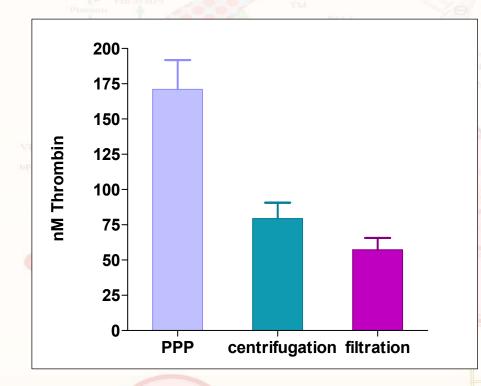


Ceveron MFU 500



Advatages of the fitration method

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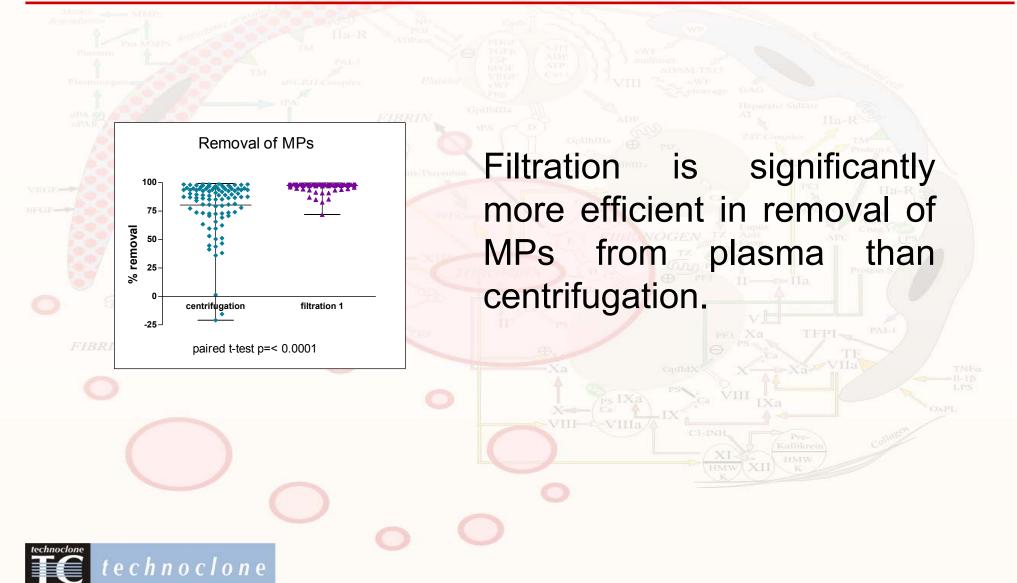


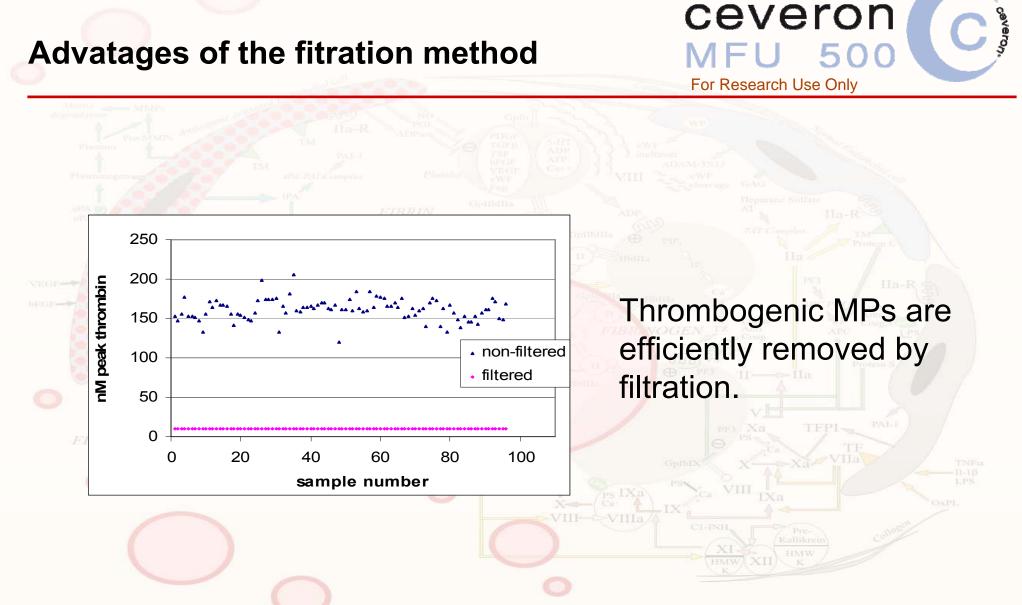
- There are no differences in thrombin generation between centifuged and filtered MFP samples
- No ultracentrifuge is required
- To prepare 96 MFP samples you need 4 minutes using the MFU 500, compared to 30 min centrifugation time
- The Ceveron MFU 500 is small, quiet and economic





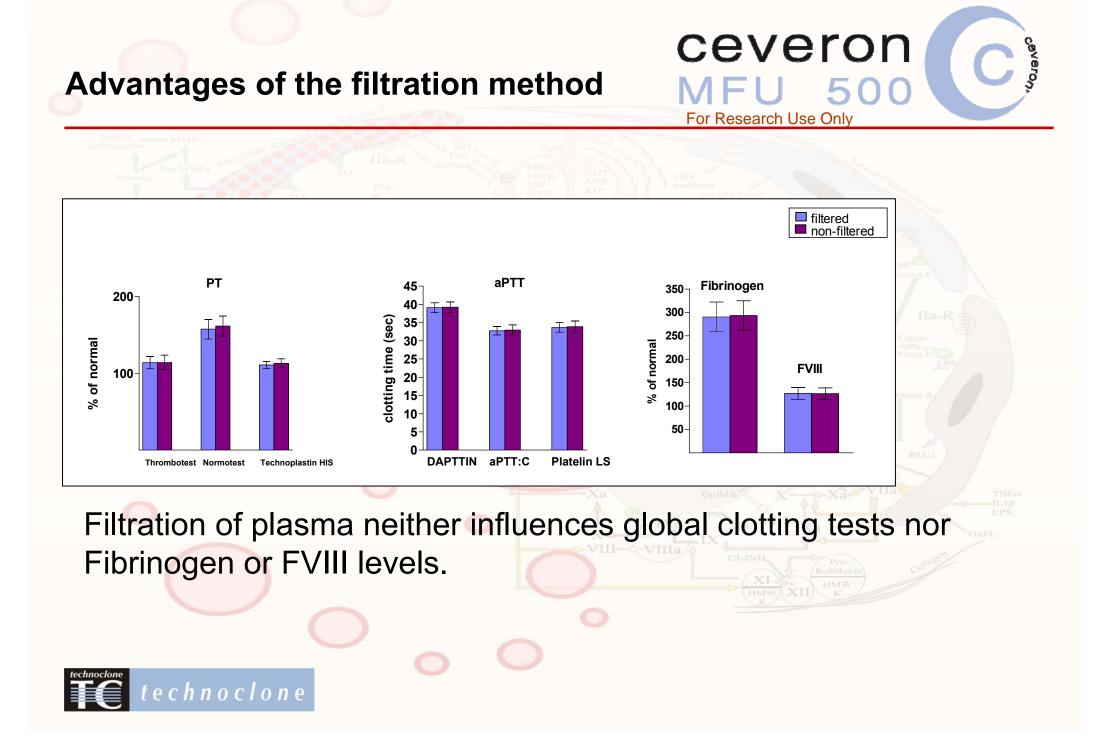


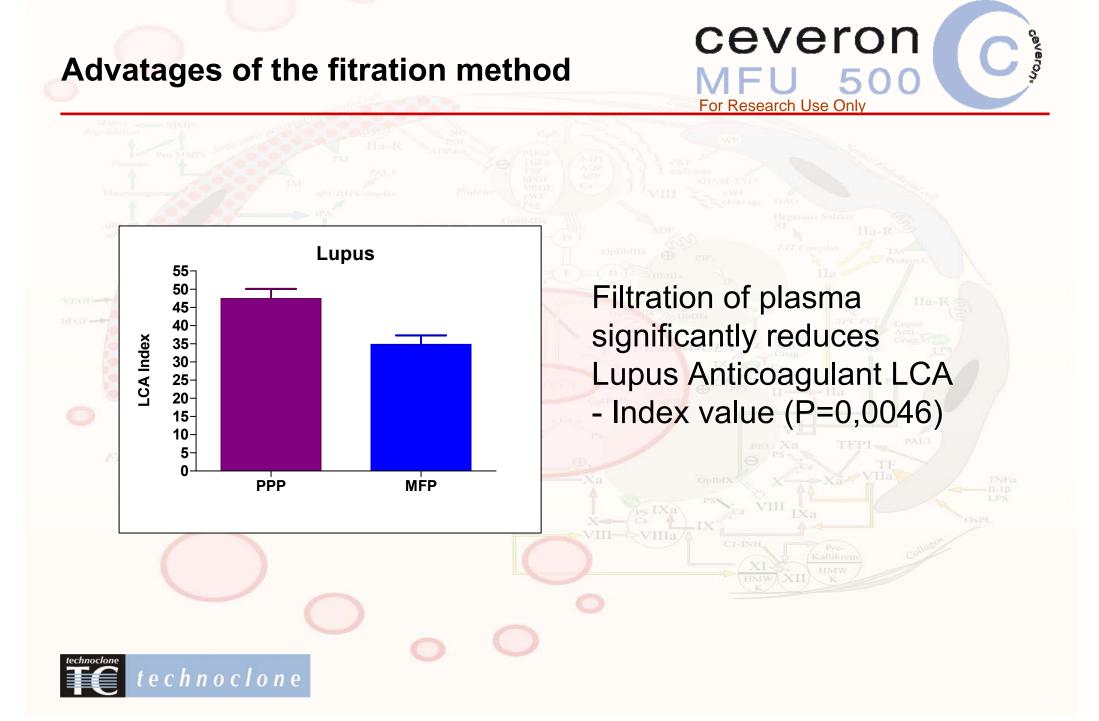




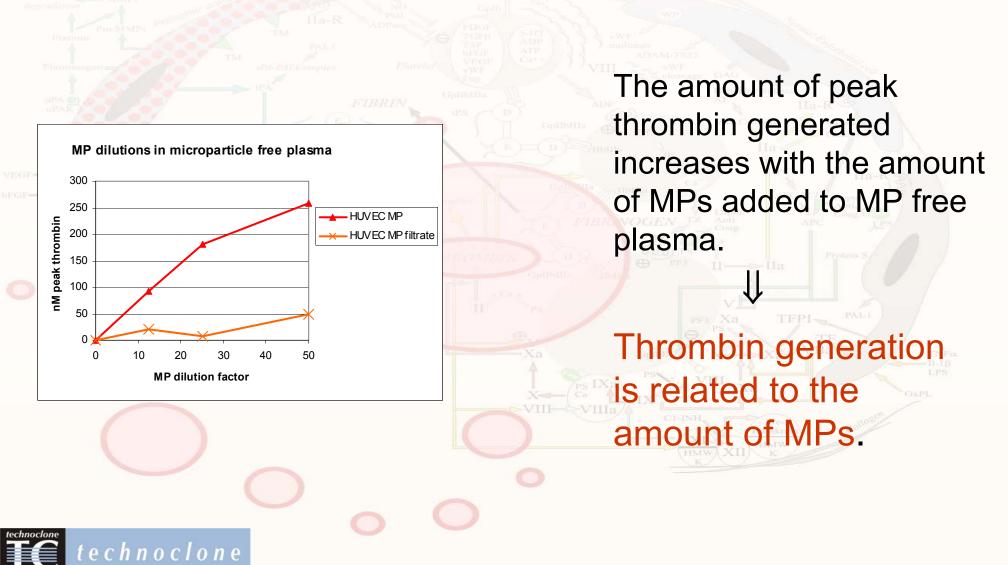
Thrombin Generation was performed without using any trigger.

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CONCLUSION



- Microparticles can be efficiently removed from platelet poor plasma by filtration.
- The reduction of thrombin generation in filtered plasma is not due to loss or damage of clotting factors.
- The thrombogenic effect of microparticles can be quantified by comparing thrombin generation in filtered and non-filtered plasma.

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