

1. Product: Bottle Top Filter Unit (500 ml)

SPL Life Sciences Bottle Top Filter Units are designed for the filtration of various media and reagents in life sciences experiments. Test and evaluation protocols were performed by researchers at the SPL Life Sciences R&D Center to measure the filtration speed of each product.

2. Test overview

Item	Description
Test Products	Bottle Top Filter Unit
Test Brands	SPL, Competitor A, Competitor B, Competitor C,
Membrane(Pore Size)	PES(0.22 μm , 0.45 μm), PVDF(0.22 μm , 0.45 μm)
Volume & Reagent	500 ml / Distilled water
Evaluation Parameter	Filtration Time (in seconds)
Number of Independent Experiments	9

2.1 Product Information

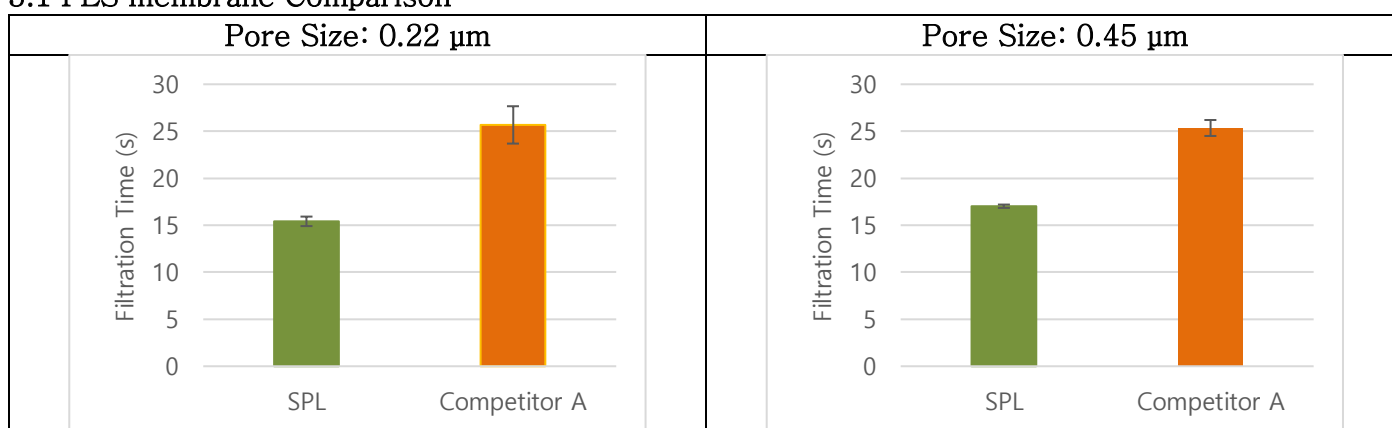
Type	Cat No.	Sample Selection Method
Bottle Top Filter Unit(PES, 0.22 μm)	508502	Random Sampling
Bottle Top Filter Unit(PES, 0.45 μm)	508503	Random Sampling
Bottle Top Filter Unit(PVDF, 0.22 μm)	518502	Random Sampling
Bottle Top Filter Unit(PVDF, 0.45 μm)	518503	Random Sampling

2.2 Protocols

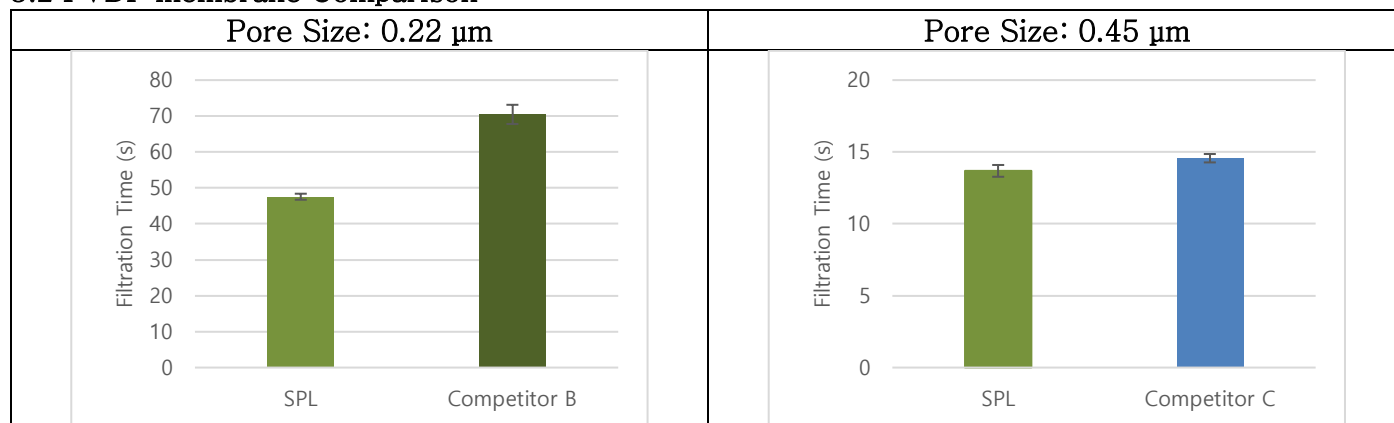
- ① Pour 500 ml of distilled water into the upper chamber of each Bottle Top Filter.
- ② Connect a vacuum pump to the Bottle Top Filter.
- ③ Apply vacuum pressure using the pump to perform filtration.
- ④ Measure the time required for complete filtration.

3. Results

3.1 PES membrane Comparison



3.2 PVDF membrane Comparison



The filtration speed of the SPL Bottle Top Filter Unit showed a performance level comparable to or superior to competitor products of the same volume.

4. Conclusion

SPL Bottle Top Filter Demonstrates a Solid Level of Filtration Speed

In this filtration speed comparative measurement, the SPL Bottle Top Filter recorded a solid level of filtration speed compared to competitor products. These results demonstrate the product's superior filtration speed.

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