

LeUltra® PES UF Cassettes

To meet the requirements of various application scenarios, LePure Biotech provides LeUltra® PES UF Cassettes in four models: F002, F010, F050, and F250. The modified polyethersulfone (PES) composite membrane offers advantages such as high flow rate, easy cleaning and regeneration, and long service life. Multiple pore sizes and two types of screen flow channels are available to meet different process needs. Fixed flow channel length and stable flow channel height ensure excellent linear scalability.

LeUltra® PES UF Cassettes are widely used in biopharmaceuticals (e.g., R&D and production of vaccines and antibodies) due to their stable and reliable performance, robustness and ease of use, high throughput, high yield, and broad chemical compatibility.

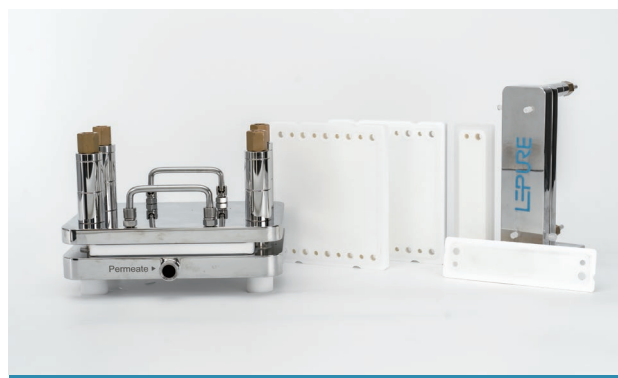
Product Advantages

- Reliable composite membrane technology with low protein adsorption for optimal product recovery
- Linear scalability to large-scale production membrane cartridges
- High throughput and high processing capacity
Extremely low hold-up volume enabling high concentration factors
- Excellent extreme temperature resistance and chemical compatibility
- Multiple screen flow channel options for process optimization

Typical Applications

Blood products, vaccines, monoclonal antibodies, gene therapies, and more often utilize ultrafiltration for processes such as concentration, dialysis desalination, and buffer exchange, in order to achieve the goals of separation, purification, and concentration.

- **Concentration:** Concentration of biomacromolecules (recombinant proteins, mAbs, viruses, etc.), e.g., lentivirus concentration and vaccine protein concentration
- **Clarification:** Adenovirus clarification and E. coli clarification
- **Buffer Exchange**
- **Diafiltration, Desalting**



Technical Parameters

Product Model	F002	F010	F050	F250
Area	0.018m ²	0.1m ²	0.53m ²	2.65m ²
Molecular Weight Cut-Off (MWCO)	10kD/30kD/50kD/100kD/300kD/500kD			
Material	Membrane: Polyethersulfone (PES)			
	Gasket: Polypropylene (PP)			
	Screen : Polypropylene (PP)			
	Housing: Silicone			
PH Range	1~14			
Max. Inlet Pressure	4 Bar (58psi/0.4MPa)			

Coding Specification

Type	Material	Flow Channel	MWCO	Area
LU	E= PES	A = Narrow Flow Channel	010=10 kD	F002=0.018m ²
		P = Wide Flow Channel	030=30 kD	F010=0.1m ²
			050=50 kD	F050=0.53m ²
			100=100 kD	F250=2.65m ²
			300=300 kD	
			500=500kD	

Ordering Information

Flow Channel	MWCO	Area	Article No.
A	30kD	180cm ²	LUEA030F002
A	30kD	0.1m ²	LUEA030F010
A	30kD	0.53m ²	LUEA030F050
A	30kD	2.65m ²	LUEA030F250
A	50kD	180cm ²	LUEA050F002
A	50kD	0.1m ²	LUEA050F010
A	50kD	0.53m ²	LUEA050F050
A	50kD	2.65m ²	LUEA050F250
A	100kD	180cm ²	LUEA100F002
A	100kD	0.1m ²	LUEA100F010
A	100kD	0.53m ²	LUEA100F050
A	100kD	2.65m ²	LUEA100F250
A	300kD	180cm ²	LUEA300F002
A	300kD	0.1m ²	LUEA300F010
A	300kD	0.53m ²	LUEA300F050
A	300kD	2.65m ²	LUEA300F250
A	500kD	180cm ²	LUEA500F002
A	500kD	0.1m ²	LUEA500F010
A	500kD	0.53m ²	LUEA500F050
A	500kD	2.65m ²	LUEA500F250

Ordering Information

Flow Channel	MWCO	Area	Article No.
P	10 kD	180cm ²	LUPEP010F002
P	10 kD	0.1m ²	LUPEP010F010
P	10 kD	0.53m ²	LUPEP010F050
P	10 kD	2.65m ²	LUPEP010F250
P	30 kD	180cm ²	LUPEP030F002
P	30 kD	0.1m ²	LUPEP030F010
P	30 kD	0.53m ²	LUPEP030F050
P	30 kD	2.65m ²	LUPEP030F250
P	50kD	180cm ²	LUPEP050F002
P	50kD	0.1m ²	LUPEP050F010
P	50kD	0.53m ²	LUPEP050F050
P	50kD	2.65m ²	LUPEP050F250
P	100kD	180cm ²	LUPEP100F002
P	100kD	0.1m ²	LUPEP100F010
P	100kD	0.53m ²	LUPEP100F050
P	100kD	2.65m ²	LUPEP100F250
P	300kD	180cm ²	LUPEP300F002
P	300kD	0.1m ²	LUPEP300F010
P	300kD	0.53m ²	LUPEP300F050
P	300kD	2.65m ²	LUPEP300F250
P	500kD	180cm ²	LUPEP500F002
P	500kD	0.1m ²	LUPEP500F010
P	500kD	0.53m ²	LUPEP500F050
P	500kD	2.65m ²	LUPEP500F250

