

USY Disposable Ultrafiltration Units

- **Easy** small volume ultrafiltration
- **Collect** concentrated solution, filtrate or both
- **Syringe-driven** filtration, no equipment required
- **Ultrafilter membranes** integrated into the units
- **Choose from** 10, 50 and 200 kDa ultrafilter units
- **Simple** unit assembly and operation

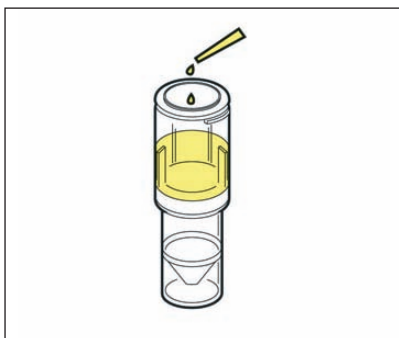
Applications

These disposable ultrafiltration units are designed to easily concentrate, separate or otherwise purify small volumes (<2 ml) of liquids, on the basis of molecular weight cut off using positive pressure. Clear filtration chamber allows visual confirmation of filtration progress.

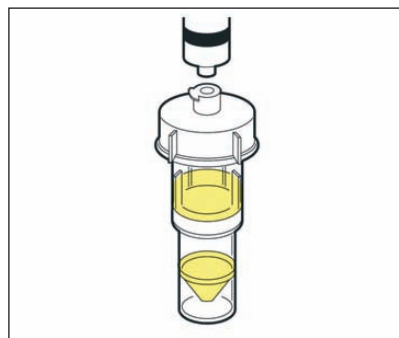


Specifications:

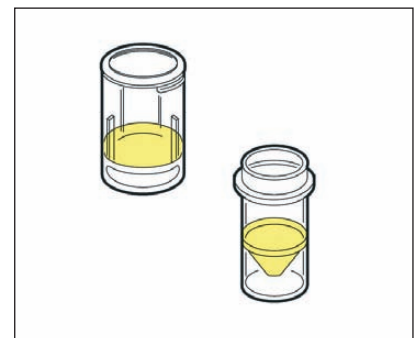
Materials	
Cell cap, Luer cap	Polypropylene
Check valve:	Silicone
Retentive cell:	Acrylic
Ultra filter:	Polysulfone
Filtrate cell:	Acrylic
Effective filtration Area:	2.0 cm ²
Maximum cell capacity:	2.0 ml
Minimum graduated volume:	0.5 ml
Minimum recovery volume:	0.5 ml
Maximum concentration:	40 x
Maximum temperature:	50°C
Sterilization:	25% Ethanol, 5% Formalin
Maximum pressure:	0.29 MPa (42.6 psi)
Filtrate cell capacity:	2.5 ml



1
Pipet sample (approximately 1-2 ml) into the retentate cell.



2
Place the cell cap onto the retentate cell and gently screw into place. Pressurize the unit by injecting 10 ml of air with a syringe.



3
The concentrated sample can be collected from the retentate cell while the filtrate can be collected from the filter cell.

› Solute Rejection [%]

1 ml of sample filtered at 0.2 MPa

		USY-1	USY-5	USY-20
Molecular Weight Cut Off of Ultra Filter		10,000	50,000	200,000
Solute	Molecular weight			
Lysozyme	14,800	>98	50	-
Myoglobin	16,800	>95	40	-
α - Chymotrypsin	24,500	>98	85	-
β - Lactoglobulin	35,000	>98	85	10
Ovalbumin	44,000	>98	95	60
Albumin (0.01%)	64,000	>98	>98	-
Bovine albumin	67,000	>98	>90	60
β - Globulin	110,000	>98	>98	>95
γ - Globulin	160,000	>98	>98	>90

› Ordering Information

1 box contains:

- 24 pcs. Retentate cells
- 24 pcs. Filtrate Cells
- 4 pcs. Luer Caps
- 4 pcs. Cell Caps
- 4 pcs. Check Valves

Type	Cut Off	Cat. No.
USY-1	10,000 MWCO	39651001
USY-5	50,000 MWCO	39651005
USY-20	200,000 MWCO	39651020