Disposable Ultrafilter Units

- **Concentrate** samples with built-in polysulfone ultrafilter
- **Easy to use** units require only syringe pressurization and do not require a centrifuge
- **Clear** housings enable visual confirmation of the filtration process
- **Low adsorption** for maximum sample recovery
- **Disposable** units for simple operation and clean-up



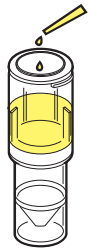
USY Series Ultrafilter Units

Specifications

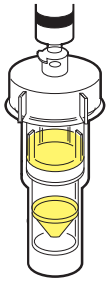
- Molecular weight cut off 10,000(USY-1), 50,000(USY-5) and 200,000(USY-20)
- Filter diameter: 16mm
- Effective filtration area: 2.0cm^2
- Cell capacity: 2mL
- Minimum Sample volume: 0.5mL
- Maximum temperature: 50°C
- Maximum pressure: 0.29MPa
- Material: Polysulfone (Filter), Acrylic(Cells) and Polypropylene(Caps)
- Sterilization: 25% Ethanol or 5% Formalin

Operation Information

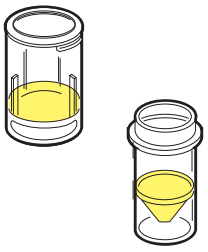
1. Prepare unit for use. Dispense sample (approx. 1-2 mL) into the retentive cell by pipet.



2. Place cap on the retentive cell. Using a syringe, pressurize the unit with air.



3. Disassemble unit when filtration is complete: concentrated sample and/or filtrate can be analyzed.



Sample Collection Data

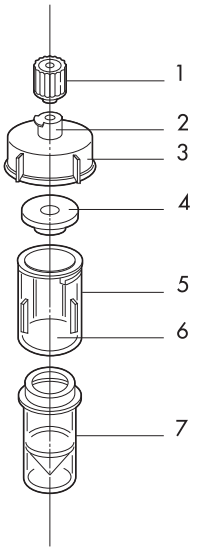
Grade		USY-1	USY-5	USY-20
Molecular Weight Cut Off		10,000	50,000	200,000
Solute	Molecular weight			
Lysozyme	14,800	>98	50	-
Myoglobin	16,800	>95	40	-
α-Chymotrypsin	24,500	>98	85	-
β-Lactoglobulin	35,000	>98	85	10
Ovalbumin	44,000	>98	95	60
Albumin (0.01%)	64,000	>98	>98	-
Bovine Albumin	67,000	>98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

Ordering Information

Grade	USY-1	USY-5	USY-20
Catalog No.	39651001	39651005	39651020
Quantity per Package*	24	24	24

*Luer cap, Cell Cap and Silicone Check Valve are contained 4 each.

USY Series Unit Assembly



1. Luer Cap
2. Luer Lock Inlet
3. Cell Cap
4. Silicone Check Valve
5. Retentive Cell
6. Ultrafilter
7. Filtrate Cell