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Contributors

Intersep Filtration Systems.

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Fugisep™

Centrifugal 0.5ml capacity
Micro Concentrators for
DNA and Protein Purification



INTERSEP
FILTRATION SYSTEMS

Fugisep™ 0.5ml Microvolume Concentrators

Fugisep centrifugal concentrators offer a fast and reliable method of microvolume sample preparation. Samples of up to 0.5ml can be rapidly concentrated down to as low as 0.005ml using standard microcentrifuge tubes. A wide range of membrane types are available to precisely match your application. Additional filter tubes are supplied for product recovery.

Principle

The Fugisep microvolume concentrator consists of a filter insert which is placed inside a 2ml microcentrifuge tube. The sample is introduced into the filter insert which is fitted with a membrane of the desired pore size. The microcentrifuge tube is capped, the sealed unit is then centrifuged. The applied g-force rapidly moves solutes and solvents of a size lower than the membrane pore size through the membrane into the outer tube. Subsequent inversion of insert and re-centrifugation allows almost complete recovery of concentrated product.

Features

- Unique sealing technology ensures resistance to high centrifugal forces (up to 15000g) and gives **minimum processing times.**
- **Fits standard microcentrifuge rotors.**
- Insert design allows inversion & **complete recovery of retained product** into the additional filter tubes supplied.
- **Wide range of available membrane types** from micro - to ultra - to precisely match your application. Manufactured to the most exacting standards by Hoechst.
- **Clearly marked volume with variable deadstop feature.**
- **Tube cap** minimizes risk of spillage or contamination. Unique design means that there is no venting of potentially dangerous aerosols.

Applications

- Concentration / purification of proteins / antibodies / nucleic acids / antibiotics.
- Fractionation of biological species.
- Removal of primers / linkers from PCR amplified DNA.
- Salt removal / buffer exchange / diafiltration.
- Body fluid sample enrichment.
- Removal of bacteria or viruses.
- Virus and enzyme purification.
- Removal of cells from culture media

Specifications

MWCO/DNA Equivalence		
MWCO	DNA Base Pairs ssDNA	DNA Base Pairs dsDNA
4000	10	10
10000	30	20
30000	60	50
50000	75	80
100000	100	125

Filter Insert Dimensions	36mm x 8.8mm diameter
Filter Tube Capacity	2ml
Max. Initial Sample Volume	0.5ml
Min. Final Concentrate Volume	0.005ml
Active Membrane Area	27mm ²
Filter Insert Material	High clarity ABS
Microcentrifuge Tube Material	Polypropylene
Microcentrifuge Requirement	Centrifuges fitted with a microtube rotor

Ordering Information

Nominal MWCO (kDaltons)											
Membrane	0.1	4	5	10	20	30	50	100	0.2µm	0.45µm	0.8µm
Polyethersulphone	06100006	06100406		06101006			06105006				
Polyaramide			06500506		06502006		06505006				
Regenerated Cellulose				06301006		06303006		06310006			
Polysulphone								06210006	06202206	06204506	06208006
See Data Sheet IS21 for details of all Nadir® membranes.											
Contents: 50 concentrators per pack plus 100 microcentrifuge tubes and handling forceps. Supplied in clear plastic container, complete with integral rack for 10 tubes and handling forceps.											

Distributed by:

In the U.S. Intersep Inc., Carriage Lane Place, PO Box 560,
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INTERSEP
FILTRATION SYSTEMS

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Ref: IS 26

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