

Fugisep : centrifugal 4.0ml capacity micro concentrators for DNA and protein purification / Intersep Filtration Systems.

Contributors

Intersep Filtration Systems.

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Fugisep™ 4ml Microvolume Concentrators

Fugisep 4.0ml centrifugal concentrators offer a fast and reliable method of microvolume sample preparation. Samples of up to 4.5ml can be rapidly concentrated down to between 0.04ml and 0.4ml using standard centrifuge tubes. The degree of concentration may be precisely selected by accurate sample pipetting. A wide range of membrane types are available to fit your application. Additional microcentrifuge tubes are supplied for product recovery.

Principle

The Fugisep 4ml microvolume concentrator consists of a filter insert which is placed inside the centrifuge tube. The sample is introduced into the filter insert which contains a membrane of the desired pore size. The centrifuge tube is capped and the sealed unit is centrifuged. The applied g-force rapidly moves solutes and solvents of a size lower than the membrane pore size through the filter into the outer tube. Subsequent inversion of filter insert and re-centrifugation allows almost complete recovery of concentrated product. The volume in the outer centrifuge tube has been limited so that a precise concentration factor can be attained by accurate sample pipetting.

Applications

- Concentration or purification of low molecular weight compounds such as proteins / antibodies / nucleic acids / antibiotics from fermentation broths, culture media and cell lysates.
- Salt removal / buffer exchange / diafiltration of column eluates.
- Body fluid sample enrichment.
- Recovery of biological species, such as viruses, bacteria, yeasts, proteins, monoclonal antibodies, DNA fragments from various sample solutions.

Features

- Unique sealing technology ensures resistance to high gravitational forces (up to 15000g) and gives **minimum processing times**.
- Each insert supplied with **duplicate centrifuge tubes - for initial process and product recovery**.
- Gentle, low shear process allows high retention of product activity.

Ordering Information

Membrane	Nominal MWCO (kDaltons)										
	0.1	4	5	10	20	30	50	100	0.2µm	0.45µm	0.8µm
Polyethersulphone	06100010	06100410		06101010			06105010				
Polyaramide			06500510		06502010		06505010				
Regenerated Cellulose				06301010		06303010		06310010			
Polysulphone								06210010	06202010	06204510	06208010

See Data Sheet IS21 for details of all Nadir® membranes.
Contents: 50 concentrators per pack plus 100 centrifuge tubes.

Specifications

Filter Insert Dimensions	94mm x 13.7mm diam.
Max. Initial Sample Volume	4.5ml
Concentrate Volume Range	0.4ml - 0.04ml
Active Membrane Area	76mm ²
Filter Insert Material	High clarity ABS
Centrifuge Tube Material	Polypropylene
Microcentrifuge Requirement	All major types with 15ml (Ø17mm) tube rotor
Max. Centrifugal Force	15000g

- Filter insert design allows complete recovery of retained product. Exact **deadstop** achieved by accurate pipetting even in swing out centrifuges.
- **Wide range of available membrane types** from micro - to ultra - to precisely match your application. Manufactured to the most exacting standards by Hoechst A.G.
- **Clearly marked volume levels**.
- **Integral filter tube cap** minimizes risk of spillage or contamination. Unique design means that there is no risk of production of potentially dangerous aerosol.
- Supplied in **clear plastic container**, complete with integral rack for 10 tubes and handling forceps.

Distributed by:

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