FT-84874

Desalting columns

Description

Columns filled with G-25 gel for rapid desalting of biomolecules (proteins, nucleic acids…)

Name : Desalting columns

Catalog Number :

10 ml G25 columns	UP848742, 5u	UP84874A, 20u,	UP84874B, 50u
4 ml G25 columns	UP84874D, 5u	UP84874E, 20u	UP84874F, 50u

Column: polypropylene with top and bottom caps

Filled Matrix : Sephadex™ G-25
Gel exclusion limit : 5 x 10^3 Da

Storage : + 4°C. Stable for a minimum of 1 year from date of receipt.

Applications: Disposable, fast, inexpensive desalting for biomolecules with molecular weight above 20 kDa.

- Easy to use : equilibrate, apply sample, elute
- For samples from 40 µl to 1 ml (4ml gel) or 200µl to 2.5ml (10ml gel)
- High recovery

Technical Information

- Characteristics

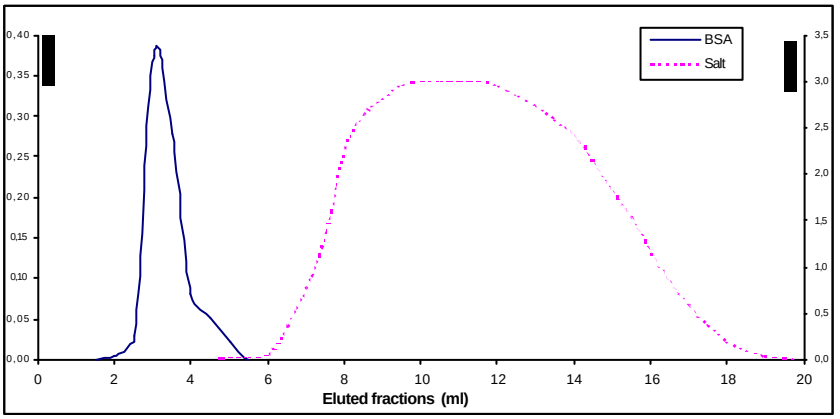
Used gel (Sephadex™ G-25) and body material allow full biocompatibility
The exclusion limit is 5.10^3 Da for globular proteins. Void volume is 1 ml (4ml gel column) or 2.5 ml (10ml gel).
The range stability is pH2-13 and it is compatible with organic solvents at concentration under 10 %.

- Applications

Suits most biotechnological applications, notably exchanging buffer and removing by-products in biochemistry works, before or after protein labelling or conjugations, as well as sample preparation for purifications, analysis and bioassays.

Desalting figure

A solution of BSA (MW 69 kDa) at 2 mg/ml and 4-nitrophenol (MW 139.1 Da) at 0.5% solution was separated onto a desalting column UP84874 and eluted with water. Absorbance of 0.5 ml collected fractions were recorded at 280 nm and 400 nm.



For any question,
Contact your local distributor

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Directions for Use

Samples containing an important load of precipitate or particules should be pre-filtered

- Equilibrate the column with 10 gel volume of the buffer required for your application
- Deposit the sample (less than 1ml for 4ml gel columns, less than 2.5ml for 10ml gel columns)
- When the sample has completely entered the gel, deposit a complementary volume of buffer to reach the void volume
- Start collecting eluted buffer and change of tube each time ; the first tubes contain excluded molecules (big molecules are desalted immediately), then small molecules (i.e. salts) are separated in following tubes ;
- Seek for presence of the desired molecule in excluded volume tubes. This can be easily done by measuring absorbance at 280 nm (proteins) or 260-280 nm for nucleic acids.
- Pool interesting tubes

Note : a calibration can be done the first time if you desalt each time the same molecules so you can collect then directly desalted molecules and avoid further elution.
Note : the columns have to be used only one time for convenience as well as for contaminations reasons.

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06
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