

Uni-Sorb : catalog no. U-01 : ready-to-use nylon wool column for the preparation of enriched T and B cell populations / WAK-Chemie Medical GmbH.

Contributors

WAK-Chemie Medical (Firm)

Publication/Creation

Bad Homburg : WAK-Chemie Medical, [1993]

Persistent URL

<https://wellcomecollection.org/works/pgjcyts4>

License and attribution

Conditions of use: it is possible this item is protected by copyright and/or related rights. You are free to use this item in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you need to obtain permission from the rights-holder(s).



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

Uni-Sorb

Catalog No. U-01

Ready-to-Use Nylon Wool Column for the Preparation of Enriched T and B Cell Populations

Introduction

Nylon wool columns – exploiting the property of B cells, but not T cells, to adhere to nylon wool – are the technique of choice in many laboratories because of the simplicity of the technique and the short time necessary to recover T-enriched as well as B-enriched populations with very high yield and the purity of over 90%.

UNI-SORB columns are sterile, ready-to-use polypropylene tubes packed with specially treated nylon wool. The top of the column is closed with a silicon rubber plug which may be penetrated by syringe needle.

The best results are obtained, when the tube is inverted and the cell preparation injected up through the cap. After the incubation in the horizontal position, the column is held upright and outflow is controlled by unique twist valve.

Hessenring 63 · D-61348 Bad Homburg v.d.H.
Telefon 061 72 - 22073 · Telefax 061 72 - 20317

**WAK - CHEMIE
MEDICAL GMBH**



Procedure

1. Remove protective cap from the twist valve.
2. Hold the column upside down and open the twist valve.
3. Slowly inject up through the rubber stopper enough sterile 5% FCS-PBS (or other medium) to completely cover the nylon wool.
4. Invert column and allow medium to drain out.
5. Prepare lymphocytes by density gradient centrifugation medium. (UNI-SEP line tubes is specially designed for this step)
6. Suspend up to 8×10^7 cells in about 2 ml of 5%-FCS-PBS or other medium.
7. Holding the column upside down, slowly inject the cell suspension into the column.
8. Close the stopcock and incubate the column at 37°C for 60 minutes.
9. Remove aluminium cap and rubber stopper from top of column.
10. Open twist valve and collect eluent. Wash nylon wool twice with 10 ml of medium each time to completely remove non-adherent cells (majority of T cells).
11. To remove adherent B cells fill the column with medium and then compress nylon wool three times with a plunger. For this purpose we recommend the plunger for a 5 ml disposable plastic syringe (13 mm diameter).
12. Spin down collected cells and discard supernatant fluid.
13. Resuspend cell pellet in approx. 10 ml of desired medium.

