

PURE-EVs: SEC columns for EV isolation

A set of columns for EV purification from different volumes of fluids

Size Exclusion Chromatography (SEC) is an efficient method for isolating and purifying Extracellular Vesicles (EVs) from different fluids, not affecting the original shape and functionality of the vesicles. We have developed a set of SEC columns which allow the EV purification from small (100 μ l) up to larger volumes (20 ml) of fluids. The EV purification process with PURE-EV columns is very fast, taking approximately 15 minutes of time.



Maxi-PURE-EVs
Code: HBM-mxPEV
Volume: 2 - 20 ml

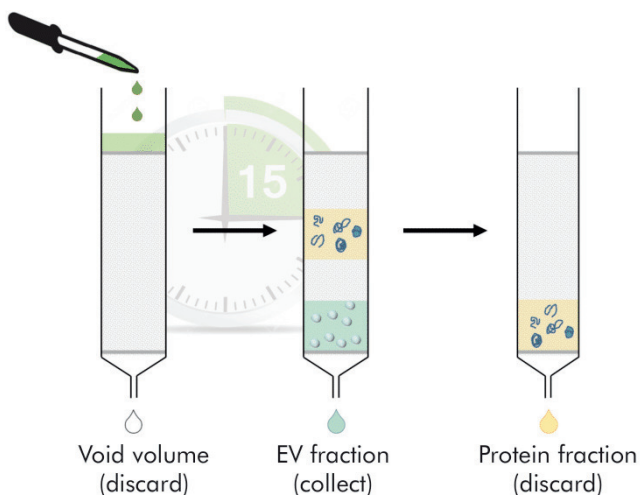


PURE-EVs
Code: HBM-PEV
Volume: 0.5 - 2 ml



Mini-PURE-EVs
Code: HBM-PEV
Volume: 0.1 - 0.5 ml

Fast EV isolation and purification



Characteristics

- Suitable for small (100 μ l) and large (20 ml) volumes.
- Reusable up to 5 times
- EVs keep the original shape and functionality

Applications

- EV purification from cell media, biofluids, plant extract
- EV purification from contaminants
- Removal of the dye excess post EV labeling

Advantages

- Fast turnaround time
- Long term stability at 4°C
- User friendly workflow

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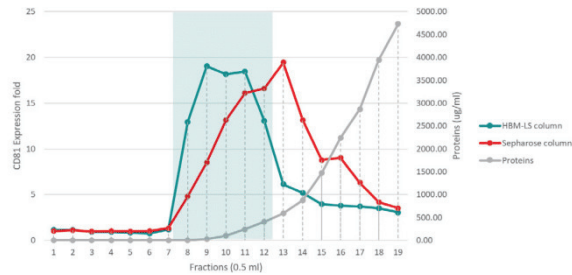


The best way to get intact EVs

PURE-EVs: fast isolation of highly pure EVs from multiple sources

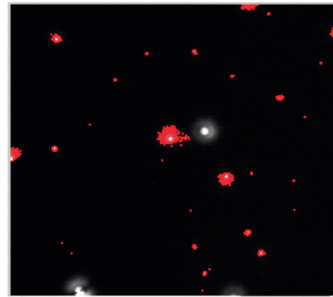
EVs isolation from cell conditioned media, biofluids and plant extracts

Our column of II generation are able to concentrate the EV fractions, compared to normal columns filled with Sepharose, incrementing the separation of EVs from circulating proteins. EVs were purified from 1 ml of CCM from HCT116 cells and analyzed by ExoTEST ELISA assay, detecting the expression of CD81.

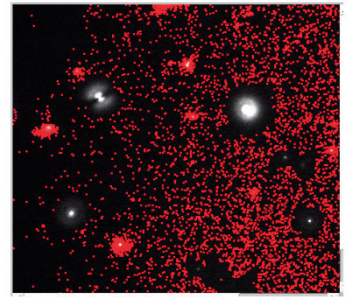


EV labelling: removal of the dye excess by Mini-PURE-EV column

All PURE-EVs columns can be used for removing contaminants from EV suspensions. 10 µg of purified EVs from HCT116 cells were labeled by the membrane dye Cell Mask Green. The excess of the dye has been removed from the EV preparation using a mini-PURE-EVs column. The background removal has been detected by NTA with Zetaview (Particle Metrix).

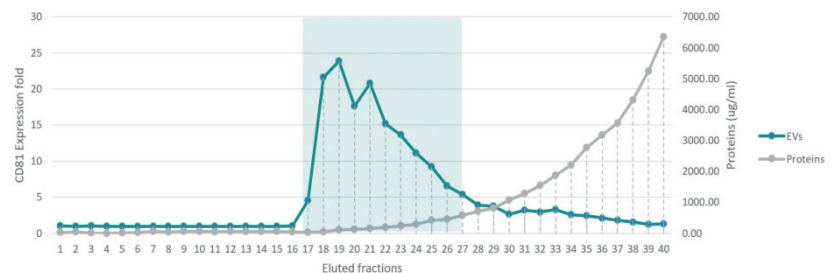
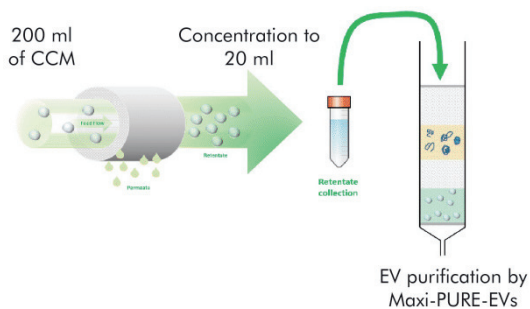


Dye excess removed by mini-PURE-EVs



Dye excess not removed

Scalable EV purification combining TFF-Easy and Maxi-PURE-EVs columns



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| Cat# | Description | Cond. |
|-----------------|--|-----------|
| NB-45-00042-100 | Super NI-NTA Agarose Resin | 100ml |
| NB-45-00042-25 | Super NI-NTA Agarose Resin | 25ml |
| NB-45-00058-4 | Proteus 1 -step Batch Mini Spin Column Pack | 40pc |
| NB-12-6001-3 | NeoLine pipette 2-20 µl | 1unit |
| NB-12-0023C | Mini Centrifuge N500C @10,000rpm (Including 6x1.5/2.0ml angle rotor) | 1pcs |
| NB-03-0160 | Proteinase K (Powder) | 100mg |
| NB-60-0001 | NeoPrep mini | 50columns |
| NB-12-8001-19 | Combs for NeoPRO4 mini (1.5mm, 15 wells) | 5pieces |
| NB-12-8001-20 | Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*83mm) | 5pieces |
| NB-12-8001-04 | Short glasses flat for NeoPRO4 mini (1.0mm, 100*73mm) | 10pieces |

“Remember, if you ever get lost or have questions, don’t hesitate to reach out to our customer support team. They’re here to help you address any concerns you may have.”

clinisciences

Austria

Company: CliniSciences GmbH
Address: Sternwartestrasse 76, A-1180
Wien - Austria
Telephone: +43 720 115 580
Fax: +43 720 115 577
Email: oesterreich@clinisciences.com
Web: <https://www.clinisciences.com>



Belgium

Company: CliniSciences S.R.L
Address: Avenue Stalingrad 52, 1000
Brussels - Belgium
Telephone: +32 2 31 50 800
Fax: +32 2 31 50 801
Email: belgium@clinisciences.com
Web: <https://www.clinisciences.com>



Denmark

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: denmark@clinisciences.com
Web: <https://www.clinisciences.com>



Finland

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: suomi@clinisciences.com
Web: <https://www.clinisciences.com>



France

Company: CliniSciences S.A.S
Address: 74 Rue des Suisses, 92000
Nanterre- France
Telephone: +33 9 77 40 09 09
Fax: +33 9 77 40 10 11
Email: info@clinisciences.com
Web: <https://www.clinisciences.com>



Germany

Company: Clinisciences GmbH
Address: Wilhelm-Mausier-Str. 41-43,
50827 Köln - Germany
Telephone: +49 221 9498 320
Fax: +49 221 9498 325
Email: deutschland@clinisciences.com
Web: <https://www.clinisciences.com>



Iceland

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: island@clinisciences.com
Web: <https://www.clinisciences.com>



Ireland

Company: CliniSciences Limited
Address: Ground Floor, 71 lower Baggot street
Dublin D02 P593 - Ireland
Telephone: +353 1 6971 146
Fax: +353 1 6971 147
Email: ireland@clinisciences.com
Web: <https://www.clinisciences.com>



Italy

Company: CliniSciences S.r.l
Address: Via Maremmana inferiore 378
Roma 00012 Guidonia Montecelio - Italy
Telephone: +39 06 94 80 56 71
Fax: +39 06 94 80 00 21
Email: italia@clinisciences.com
Web: <https://www.clinisciences.com>



Netherlands

Company: CliniSciences B.V.
Address: Kraaijenhoffstraat 137A,
1018RG Amsterdam, - Netherlands
Telephone: +31 85 2082 351
Fax: +31 85 2082 353
Email: nederland@clinisciences.com
Web: <https://www.clinisciences.com>



Norway

Company: CliniSciences AS
Address: c/o MerVerdi Munkerudtunet 10
1164 Oslo - Norway
Telephone: +47 21 988 882
Email: norge@clinisciences.com
Web: <https://www.clinisciences.com>



Poland

Company: CliniSciences sp.Z.o.o.
Address: ul. Rotmistrza Witolda Pileckiego 67
lok. 200 - 02-781 Warszawa -Poland
Telephone: +48 22 307 0535
Fax: +48 22 307 0532
Email: polska@clinisciences.com
Web: <https://www.clinisciences.com>



Portugal

Company: Quimigen Unipessoal LDA
Address: Rua Almada Negreiros, Lote 5, Loja 14,
2615-275 Alverca Do Ribatejo - Portugal
Telephone: +351 30 8808 050
Fax: +351 30 8808 052
Email: info@quimigen.com
Web: <https://www.quimigen.pt>



Spain

Company: CliniSciences Lab Solutions
Address: C/ Hermanos del Moral 13
(Bajo E), 28019, Madrid - Spain
Telephone: +34 916 750 700
Fax: +34 91 269 40 74
Email: espana@clinisciences.com
Web: <https://www.clinisciences.com>



Sweden

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: sverige@clinisciences.com
Web: <https://www.clinisciences.com>



Switzerland

Company: CliniSciences AG
Address: Fracht Ost Flughafen Kloten
CH-8058 Zürich - Switzerland
Telephone: +41 (044) 805 76 81
Fax: +41 (044) 805 76 75
Email: switzerland@clinisciences.com
Web: <https://www.clinisciences.com>



UK

Company: CliniSciences Limited
Address: 11 Progress Business center, Whittle
Parkway, SL1 6DQ Slough- United Kingdom
Telephone: +44 (0)1753 866 511
or +44 (0) 330 684 0982
Fax: +44 (0)1753 208 899
Email: uk@clinisciences.com
Web: <https://www.clinisciences.com>



USA

Company: CliniSciences LLC
Address: c/o Carr Riggs Ingram,
500 Grand Boulevard, Suite 210 Miramar
Beach, FL 32550- USA
Telephone: +1 850 650 7790
Fax: +1 850 650 4383
Email: usa@clinisciences.com
Web: <https://www.clinisciences.com>

