

EXO-TotalRNA

Exosome RNA extraction kits

A selection of kits for extraction and purification of total RNA, including small-RNAs, from immunocaptured exosomes

Exosomes RNA extraction Kits

HBM has developed optimized solutions for the efficient extraction of high-quality total RNA (miRNA and mRNAs) from the overall exosomes and microvesicle population (EXO-TotalRNA) or from tumor-specific exosome subpopulation (TumorEXO-TotalRNA: enrichment of tumor-specific exosome population from human biofluids), which helps to facilitate the identification of tumor miRNA or mRNAs signatures from human biofluids or cell culture media.

Use HBM RNA extraction kits for miRNA and mRNAs analysis

Kits integrate a proprietary immunocapture solution (immunobeads) and reagents for total RNA extraction. HBM immunobeads can capture the overall exosome population from a wide range of media, including cell culture supernatants and human biofluids (plasma, serum, urine, etc) as well as enrich some specific exosome subpopulations (tumor-derived exosomes). The captured exosomes are subsequently lysed with an optimized lysis buffer and total RNA is purified using spin columns with a fast and user-friendly process. Eluted RNA can be used for downstream analyses or stored at -80°C. Exosome standards for positive control are also included in the kit.

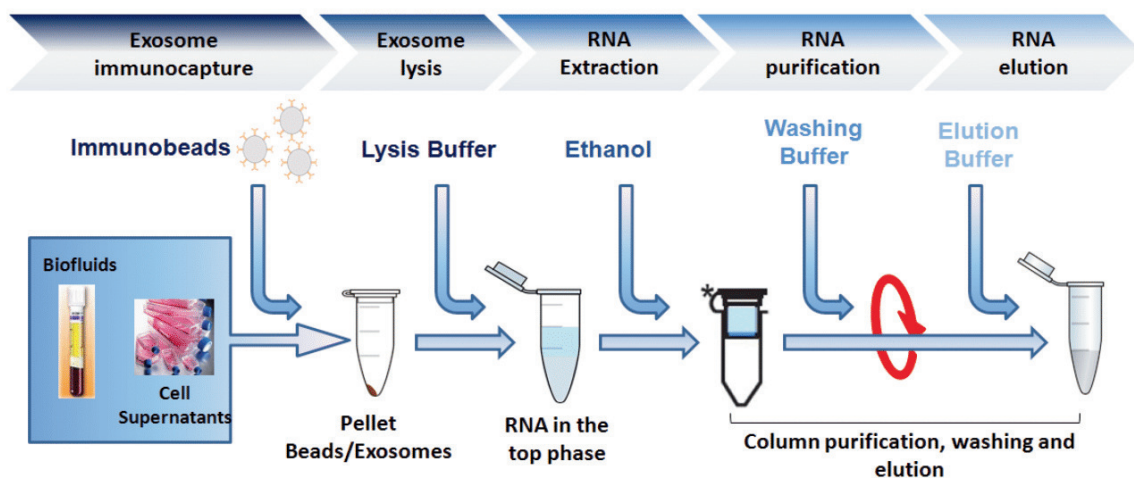
Applications

- Direct capture and exosome RNA extraction from human biofluids and cell culture media without initial exosome purification step.
- Simultaneous miRNA and mRNA profiling (qRT-PCR, RT-PCR, microarray).
- Enrichment of tumor-derived exosomes for cancer miRNA marker profiling.

Advantages

- High yield of total RNA (including small RNAs)
- Fast and user friendly protocol
- Small starting amount of sample (less than 1 ml).
- Better RNA yield than similar products.
- The only kit on the market providing Exosome Standards as control.

Cat. Code	Description	Size
EXO-TotalRNA		
Overall Exosome Immunocapture and RNA extraction Kit (from human biofluids and cell media)		
HBM-RNA-BOF-10/#	RNA extraction from overall exosome population captured with immunobeads	10 reactions
HBM-RNA-BOF-20/#		20 reactions
TumorEXO-Total RNA		
Tumor-derived Exosome Immunocapture and RNA extraction Kit (from human biofluids)		
HBM-RNA-BTF-10/#	RNA extraction from tumor-derived exosome population captured with immunobeads	10 reactions
HBM-RNA-BTF-20/#		20 reactions
RNA Basic Kit*		
HBM-RNA-B20	RNA extraction from pre-isolated exosome	20 reactions
HBM-RNA-B30		30 reactions
*RNA basic kit does not contain immunobeads for exosome isolation. It is designed for exosome total RNA (miRNA + mRNAs) from pre-isolated exosomes. Compatible with exosome isolated via ultracentrifuge, chemical precipitation, size chromatography, immunocapture etc.		

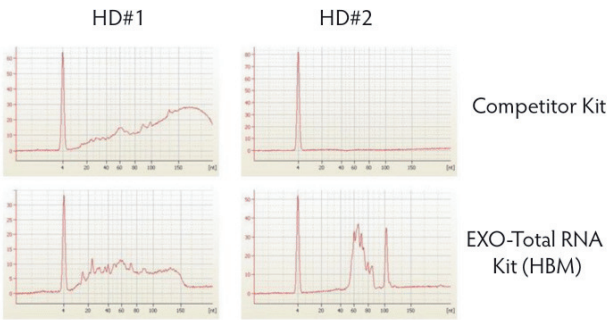


Distributed by

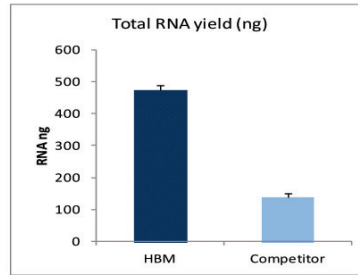
clinisciences

EXO-Total RNA allows extraction of high quality of exosome-derived RNAs from low volumes of sample and better performance than competitors.

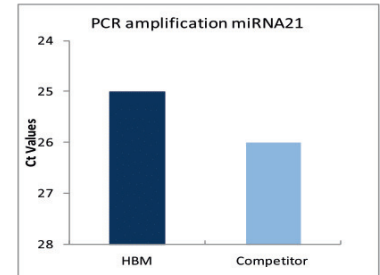
Efficiency of EXO-TotalRNA kit was tested vs a competitor kit for RNA extraction from plasma derived exosomes. Extraction of total exosome RNA was performed from 100 µl of healthy donor plasma (HD #1 and #2) with Competitor Kit or with the EXO-TotalRNA Kit (HBM). RNA quality was evaluated by electropherogram (Fig 1) with Small RNA microfluidic chips (Agilent 2100 Bioanalyzer). RNA yield was quantified by Nanodrop (Fig 2) and extracted RNA was subsequently retrotranscribed using the miScript II RT kit (Qiagen). miR-21 marker was amplified by qPCR (Fig 3).



1. Electropherograms of small RNA extracted with HBM EXO-Total RNA kit and Competitor (Agilent 2100 Bioanalyzer)



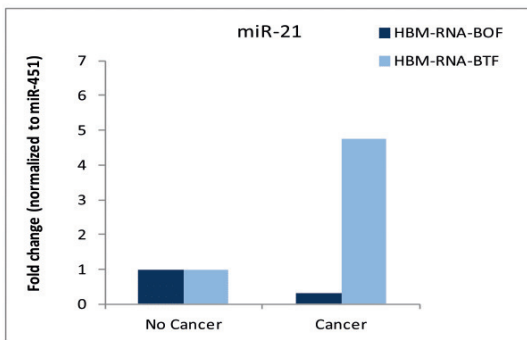
2. Nanodrop quantification of total RNA yield



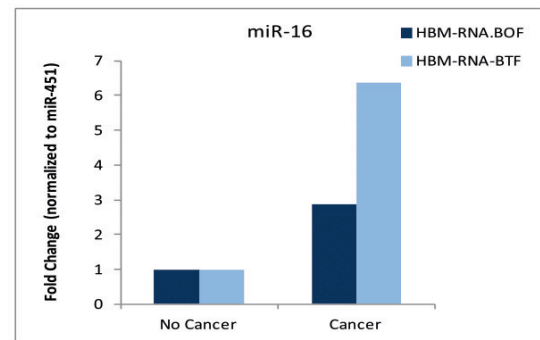
3. miRNA 21 amplification by qPCR

TumorEXO Total RNA allows enrichment of cancer derived miRNA from plasma samples.

Total Exosome derived RNA was extracted from 100 µl of plasma from a healthy donor and a cancer patient using RNA kit EXO-Total RNA (HBM-RNA-BOF) for immunocapture of overall exosomes and RNA extraction or TumorEXO Total RNA (HBM-RNA-BTF), for tumor-derived exosome enrichment and RNA extraction, respectively. Total RNA extracted was retrotranscribed using the miScript II RT kit (Qiagen) and the expression level of miR-21 and miR-16 were measured relative to control miR451 by qPCR. Usage of TumorEXO Total RNA shows enrichment in miR-21 and miR-16 in cancer patient (Fig 4 and 5).



4. Enrichment in miR-21 expression level in cancer when Tumor-EXO Total RNA kit is used.



5. Enrichment in miR-16 expression level in cancer when Tumor-EXO Total RNA kit is used.

RNA and DNA Extraction and Analysis Service

In addition to the products described in this leaflet, HansaBioMed also provides services for RNA and DNA extraction, quantification and analysis. We can facilitate your research by providing professional services performed by scientists experienced in the exosome field and using state of art equipment. A wide range of services is offered from simple exosome RNA/DNA purification and quantification to biomarker discovery using the most advanced analytical technologies (e.g. NGS).

How to navigate through our website?

Homepage: When you first visit our website, you'll land on the homepage. This is where you can find an overview of our services, products, or any important announcements. From here, you can navigate to other sections of the website.



Search for a product by description, reference, CAS, Number, target...

Search Bar: Look for specific Products and equipment

Search for a product (description, reference, CAS number, target ...)

Search by selecting either RUO or IVD products

Refine your search by choosing from the following options

Apply Filter

Search result : 39126007 product found

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

Refine your search :

RUO CE / IVD

Conjugate (100) +
 Reactivity species (100) +
 Class (66) +
 Host species (100) +
 Cell name (2) +
 Application (100) +
 Clone (100) +

“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>

