

# $\mu$ MACS™ VitalVirus HIV Isolation

Specific isolation of infectious virions for HIV-1 research

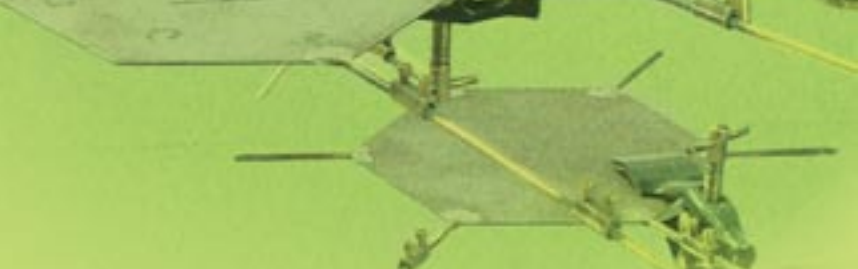
**Purify highly infectious virus**

**Less than 1 hour**

**Use standard, diluted, or difficult samples**

## **Advance your HIV research**

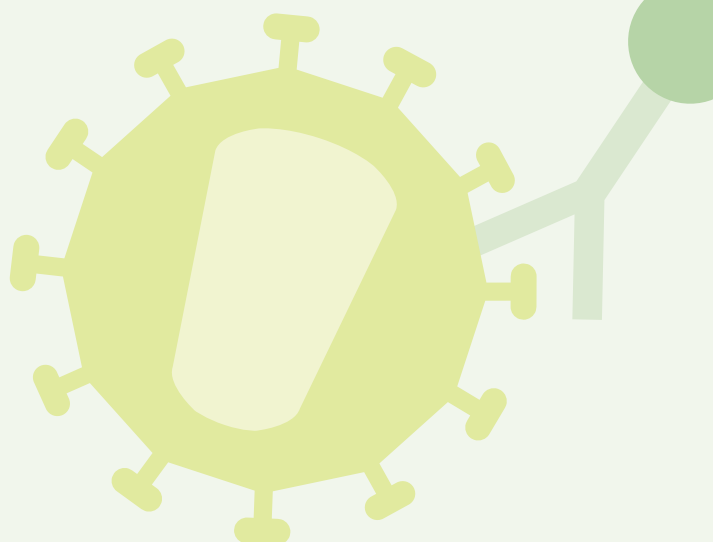
- Magnetic virus isolation without ultracentrifugation
- Get highly infectious virus for culture and analysis
- Enrich and detect HIV-1 from culture or bodily fluids in combination with p24 antigen or viral RNA content assays
- Develop primary HIV-1 isolates from standard or diluted plasma, serum, or other patient samples
- Study virus transmission using difficult samples like cervical lavage, semen, breast milk, or cerebral spinal fluid
- Remove inhibitors for drug resistance phenotyping and neutralization studies



### MACS® Technology enables HIV isolation

Positive selection using extremely small, paramagnetic CD44 MicroBeads enables HIV-1 isolation from human patient samples and virus culture supernatant. CD44 is a host cell protein that is incorporated into the virus envelope when the virus buds from the membrane of lymphoid or myeloid cells.

By attaching the MicroBeads to the host cell proteins in the virion membrane, the HIV-1 envelope protein, gp120, is still available for binding to its cellular receptors so that the virion remains fully infectious. The gravity-flow isolation on MACS® Columns allows multiple downstream applications: Directly lyse virus or elute intact virions for culture or analysis.



Kits	Components	Capacity	Order no.
<b>µMACS™ VitalVirus HIV Isolation Kit</b>	CD44 MicroBeads, Equilibration Buffer, Virus Wash Buffer, Virus Lysis Buffer, µ Columns	20 reactions	130-092-805
<b>µMACS™ VitalVirus HIV Isolation Starting Kit</b>	1 µMACS™ VitalVirus HIV Isolation Kit, 1 µMACS Separator, 1 MultiStand	20 reactions plus equipment	130-092-833
<b>MultiMACS™ VitalVirus HIV Isolation (12x8)</b>	µMACS™ VitalVirus HIV Isolation Reagents and Multi-8 Columns	96 reactions	130-092-806
<b>MultiMACS™ VitalVirus HIV Isolation (4x96)</b>	µMACS™ VitalVirus HIV Isolation Reagents and Multi-96 Columns	384 reactions	130-092-807

#### Related products

MicroBeads and kits for human cell isolation

MicroBeads and kits for non-human primate cell isolation

Antibodies for human and non-human primate cell detection

µMACS™ Streptavidin Kit



**Miltenyi Biotec GmbH**  
Friedrich-Ebert-Straße 68  
51429 Bergisch Gladbach  
Germany  
Phone +49 2204 8306-0  
Fax +49 2204 85197  
macs@miltenyibiotec.de

[www.miltenyibiotec.com](http://www.miltenyibiotec.com)

**Miltenyi Biotec Inc.**  
12740 Earhart Avenue  
Auburn CA 95602, USA  
Phone 800 FOR MACS,  
+1 530 888 8871  
Fax +1 530 888 8925  
macs@miltenyibiotec.com

**Miltenyi Biotec Pty. Ltd. (Australia)**  
Phone +61 02 8877 7400  
macs@miltenyibiotec.com.au

**Miltenyi Biotec B. V. (Benelux)**  
macs@miltenyibiotec.nl  
Customer service, Netherlands  
Phone 0800 4020120  
Customer service, Belgium  
Phone 0800 94016

Customer service, Luxembourg  
Phone 800 24971

**Miltenyi Biotec Shanghai Office**  
Phone +86 21 6235 1005  
macs@miltenyibiotec.com.cn

**Miltenyi Biotec (France)**  
Phone +33 1 56 98 16 16  
macs@miltenyibiotec.fr

**Miltenyi Biotec S.r.l. (Italy)**  
Phone +39 051 646 0411  
macs@miltenyibiotec.it

**Miltenyi Biotec K.K. (Japan)**  
Phone +81 3 56 46 8910  
macs@miltenyibiotec.jp

**Miltenyi Biotec Asia Pacific Pte. Ltd. (Singapore)**  
Phone +65 6238 8183  
macs@miltenyibiotec.com.sg

**Miltenyi Biotec S.L. (Spain)**  
Phone +34 91 512 12 90  
macs@miltenyibiotec.es

**Miltenyi Biotec Ltd. (UK)**  
Phone +44 1483 799 800  
macs@miltenyibiotec.co.uk