



## Product Information Sheet for HRP-11412

### Panel of International Human Immunodeficiency Virus Type 1 Isolates

#### Catalog No. HRP-11412

This reagent is the tangible property of the U.S. Government.

#### Lot No. 70055705

**For research use only. Not for use in humans.**

#### Contributor:

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#### Manufacturer:

NIH HIV Reagent Program

Please refer to Table I for contributors of individual isolates.

#### Product Description:

**VIRUS CLASSIFICATION:** *Retroviridae, Lentivirus*

**SPECIES:** Human Immunodeficiency Virus Type 1

**ORIGINAL SOURCE:** The International Panel of Human Immunodeficiency Virus Type 1 (HIV-1) virus isolates consists of 10 viruses each from chronically infected individuals of subtypes A, B, C, D and circulating recombinant forms, CRF01\_AE and CRF02\_AG.<sup>1</sup>

**COMMENTS:** The HIV-1 isolates in this panel have been genetically and biologically characterized. The panel contains isolates that use cysteine-cysteine chemokine receptor 5 (CCR5) as a major coreceptor, C-X-C chemokine receptor type 4 (CXCR4) or both co-receptors, and contains both neutralization-sensitive and resistant isolates. This collection provides an important resource for the standardization of immunogenicity assessment in HIV-1 vaccine trials. The HIV-1 isolates in this panel have been cultured in human peripheral blood mononuclear cells (PBMC). Tests for bacteria, fungi and mycoplasma were negative for all the isolates.

Please refer to Table I for genetic and biological characterization of the 60 international HIV-1 isolates and Table II for lot-specific analytical data of each isolate. Isolates can also be ordered individually; please refer to Table I for catalog numbers of individual isolates.

#### Material Provided:

HRP-11412 is a set of 60 vials, each containing approximately 1.0 mL of cell-free virus.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

#### Packaging/Storage:

HRP-11412 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer immediately upon arrival. Freeze-thaw cycles should be avoided.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Panel of International Human Immunodeficiency Virus Type 1 Isolates, HRP-11412, contributed by Dr. Robert Gallo, Dr. Nelson Michael, Dr. Smita Kulkarni, Dr. Victoria Polonis and The Joint United Nations Programme on HIV/AIDS (UNAIDS)."

#### Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

#### Disclaimers:

You are authorized to use this product for research use only. It is not intended for use in humans.

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.hivreagentprogram.org](http://www.hivreagentprogram.org).

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### NIH HIV Reagent Program

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Scientists at for-profit institutions or who intend commercial use of Release Category C (Dr. V. Polonis) or D (Dr. N. Michael) Reagents must contact the U.S. Army Medical Research and Materiel Command (USAMRMC) Office of Research and Technology Applications (ORTA) at the following email address, Email: [USArmy.Detrick.MEDCOM-USAMRMC.List.ORTA@mail.mil](mailto:USArmy.Detrick.MEDCOM-USAMRMC.List.ORTA@mail.mil) before the reagent can be released.

Scientists at for-profit institutions or who intend commercial use of Release Category C Reagents (ARP-317 and ARP-510) must contact the NCI Technology Transfer Center at the following email address, Email: [lauren.nguyen-antczak@nih.gov](mailto:lauren.nguyen-antczak@nih.gov) before the reagent can be released.

Scientists at for-profit institutions or who intend commercial use of Release Category C Reagent (ARP-4648) must contact both Dr. Smita Kulkarni, Email: [skulkarni@nariindia.org](mailto:skulkarni@nariindia.org) and and Dr. R. S. Paranjape, Director, National AIDS Research Institute, Email: [rparanjape@nariindia.org](mailto:rparanjape@nariindia.org), before the reagent(s) can be released.

### References:

1. Brown, B. K., et al. "Biologic and Genetic Characterization of a Panel of 60 Human Immunodeficiency Virus Type 1 Isolates, Representing Clades A, B, C, D, CRF01\_AE, and CRF02\_AG, for the Development and Assessment of Candidate Vaccines." *J. Virol.* 79 (2005): 6089-6101. PubMed: 15857994.

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