

**Centre for AIDS Reagents**

**Data Sheet**

**NAME:** Pseudotyped virus HIV -ZM53M.PB12(pSG3?env)293T/17

**REPOSITORY REFERENCE:** ARP1142 (200906085119P)

**HARVEST DATE:** 12/JUN/09

**DESCRIPTION:** HIV-1 Env-pseudotyped virus for assessing neutralizing antibody response in the TZM-bl assay

**HOST CELLS:** 293T/17 (P20)

**ENVELOPE PLASMID:** ZM53M.PB12  
Tier : 2  
Clade: C  
Country of origin: Zambia  
Stage of infection: =VI  
Mode of Transmission: F-M  
Accession number: AY423984

**BACKBONE PLASMID:** pSG3 delta env (was derived from pSG3.1 by partial SpeI digestion, Klenow filling of the 3' recessed ends and religation. This introduced a four nucleotide insertion mutation (CTAG) in env and a translation stop codon after amino acid residue 142).  
  
Accession number: L02317

**RECOMMENDED VIRUS DILUTION** 1:100  
**IN NEUTRALISING ANTIBODY** 1:100 (1x thawed)  
**IN TZM-BL CELLS:**

100.000

**PRESENTATION:**

1 ml

**STORAGE:**

-80°C

**BIOHAZARD:**

Biosafety Level II or III as HIV-1 Env-pseudoviruses are revertible to replication competent HIV

**SOURCE:**

Env plasmid was provided by Beatrice Hahn and the backbone plasmid was contributed by John Kappes and Xiaoyun Wu.

HIV pseudotyped virus was produced by Stefanie Koch, Andreas Meyerhans and Hagen von Briesen at HSC (HIV Specimen Cryorepository) under GCLP conditions.

**REFERENCES:**

Li, M., J.F. Salazar-Gonzalez, C.A. Derdeyn, L. Morris, C. Williamson, J.E. Robinson, J.M. Decker, Y. Li, M.G. Salazar, V.R. Polonis, K. Mlisana, S.A. Karim, K. Hong, K.M. Greene, M. Bilska, J.T. Zhou, S. Allen, E. Chomba, J. Mulenga, C. Vwalika, F. Gao, M. Zhang, B.T.M. Korber, E. Hunter, B.H. Hahn, and D.C. Montefiori. (2006) Genetic and neutralization properties of subtype C human immunodeficiency virus type 1 molecular env clones from acute and early Hetroly acquired infections in southern Africa. *J. Virol.*, 80:11776-11790.

Wei S, Decker JM, Liu H, Zhang Z, Arani RB, Kilby JM, Saag MS, Wu X, Shaw GM, and Kappes JC. Emergence of resistant human immunodeficiency virus type 1 in patients receiving fusion inhibitor (T-20) monotherapy. *Antimicrob Agents Chemother* 46: 1896-1905, 2002.

Wei X, Decker JM, Wang S, Hui H, Kappes JC, Wu X, Salazar-Gonzales JF, Salazar MG, Kilby JM, Saag MS, Komarova NL, Nowak MA, Hahn BH, Kwong PD and Shaw GM. Antibody neutralization and escape by HIV-1. *Nature* 422: 307-312, 2003.

**LEGAL NOTE:**

Consultation needed

The HIV pseudovirus production and distribution project is a collaborative effort of the Comprehensive Antibody Vaccine Immune Monitoring Center (CA-VIMC) (PI David Montefiori) and the HIV Specimen Cryorepository (HSC) (PI Hagen von Briesen) within the Collaboration for AIDS Vaccine Discovery (CAVD) (founded by the Bill and Melinda Gates foundation).

Production, quality control and distribution of HIV-1 Env-pseudoviruses is conducted by the HSC (Stefanie Koch, Hagen von Briesen). HIV Env-pseudoviruses are provided on a collaborative basis with Stefanie Koch, Andreas Meyerhans and Hagen von Briesen.

**ACKNOWLEDGEMENTS:**

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[www.nibsc.ac.uk/spotlight/centre\\_for\\_aids\\_reagents.aspx](http://www.nibsc.ac.uk/spotlight/centre_for_aids_reagents.aspx)

Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)