



NIH AIDS Research & Reference Reagent Program
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DATA SHEET

Reagent: u Calibrated Viral Load Standards for Group M Subtypes of HIV-1

Catalog Number: See attached. Please order by individual catalog number(s).

Provided: 1 vial cell-free virus

Host: Human PBMCs.

Special Characteristics: A large panel of well-characterized, cultured HIV-1 standard isolates representing subtypes A through G was developed in order to evaluate the performance of quantitative viral load platforms with different HIV-1 subtypes. The virus particle concentration of each cultured viral stock was standardized by electron microscopic virus particle counting.

Sterility: Negative for mycoplasma, bacteria and fungi.

Recommended Storage: Liquid nitrogen

Contributor: Dr. Nelson Michael.

References: Jagodzinski LL, Wiggins DL, McManis JL, Emery S, Overbaugh J, Robb M, Bodrug S, Michael NL. Use of calibrated viral load standards for group M subtypes of human immunodeficiency virus type 1 to assess the performance of viral RNA quantitation tests. *J Clin Microbiol* **38**:1247-1249, 2000.

Michael NL, Herman SA, Kwok S, Dreyer K, Wang J, Christopherson C, Spadoro JP, Young KK, Polonis V, McCutchan FE, Carr J, Mascola JR, Jagodzinski LL, Robb ML. Development of calibrated viral load standards for group M subtypes of human immunodeficiency virus type 1 and performance of an improved AMPLICOR HIV-1 MONITOR test with isolates of diverse subtypes. *J Clin Microbiol* **37**:2557-2563, 1999.

Vahey M, Nau ME, Barrick S, Cooley JD, Sawyer R, Sleeker AA, Vickerman P, Bloor S, Larder B, Michael NL, Wegner SA. Performance of the Affymetrix GeneChip HIV PRT 440 platform for antiretroviral drug resistance genotyping of human immunodeficiency virus type 1 clades and viral isolates with length polymorphisms. *J Clin Microbiol* **37**:2533-2537, 1999.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the AIDS Research and Reference Reagent Program, Division of AIDS, NIAID, NIH: (specify reagent) from Dr. Nelson Michael." Also include the references cited above in any publications.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Virus Isolate	Cat. No.	Lot No.	Subtype ^b	Country	Date (YR) of Isolation	GenBank Accession No.(s)	RT (cpm/ml [10 ⁵])	p24 Conc. (ng/ml)	TCID ₅₀ /ml ^c	Particle Count (virions/ml [10 ⁸])
UG273 (GS 001)	7683	5 110103	A	Uganda	1991	L22957	3.22	10.3	3.8 x 10 ⁶	N/A
DJ258 (GS 002)	7684	Discontinued	A (IbNG)	Djibouti	1991	L11763, L22939	N/A	N/A	N/A	N/A
DJ263 (GS 003)	7685	7 098364	A (IbNG)	Djibouti	1991	AF063223, L22941	0.12	N/A	2.3 x 10 ⁴	N/A
US1 (GS 004)	7686	5 070025	B	USA	1991	L14573	N/A	294	100,000	N/A
US2 (GS 005)	7687	3 098297	B	USA	1991	L14574	N/A	61	6.32 x 10 ²	N/A
US3 (GS 006)	7688	Discontinued	B	USA	1991	L14575	N/A	N/A	N/A	N/A
US4 (GS 007)	7689	4 070006	B	USA	1991	L14576	N/A	680	1,000,000	N/A
CM237 (GS 008)	7690	Discontinued	B	Thailand	1991	L14570	N/A	N/A	N/A	N/A
BK132 (GS 009)	7691	6 110237	B	Thailand	1990	L03696, L03697	N/A	100	3.98x10 ³	N/A
BZ167 (GS 010)	7692	3 098283	B	Brazil	1990	L11752, L22087	1.97	116	1.45 x 10 ⁴	5.0
ZAM18 (GS 011)	7693	3 051102	C	Zambia	1989	L03705	6.23	12.9	3.49 x 10 ⁵	N/A
UG268 (GS 012)	7694	5 110238	C	Uganda	1991	L11799, L22948	N/A	125	3.98x10 ⁴	N/A
ETH2220 (GS 014)	7695	Discontinued	C	Ethiopia	1986	U46016	N/A	N/A	N/A	N/A
SE364 (GS 015)	7696	4 070007	C	Senegal	1990	L22944	N/A	157	1,000,000	N/A
SM145 (GS 016)	7697	4 070009	C	Somalia	1989	L11803, L22946	N/A	2000	100,000	N/A
SE365 (GS 017)	7698	5 110139	D	Senegal	1990	L11797, L22945	N/A	43.8	2.94x10 ⁶	N/A
UG270 (GS 018)	7699	Discontinued	D	Uganda	1991	L11800	N/A	N/A	N/A	N/A
UG274 (GS 019)	7700	Discontinued	D	Uganda	1991	L11801, L22950	N/A	N/A	N/A	N/A
CM235 (GS 020)	7701	7 080139	E (A/E)	Thailand	1991	L03698	N/A	83	512	N/A
CM238 (GS 021)	7702	3 098298	E (A/E)	Thailand	1991	L11760, L14571	N/A	119	1.12 x 10 ⁴	N/A
CM240 (GS 022)	7703	7 080140	E (A/E)	Thailand	1991	U54771, L11761, L14572	N/A	124	362	2
CM243 (GS 023)	7704	Discontinued	E (A/E)	Thailand	1991	L03702, L03703	N/A	N/A	N/A	N/A
POC30506 (GS 024)	7705	3 098365	E (A/E)	Thailand	1994	U48272	N/A	117	9.12 x 10 ³	8.1
IN12 (GS 025)	7706	3 100086	E (A/E)	Indonesia	1993	U68193	N/A	80.9	7.24 x 10 ³	4.7
IN17 (GS 026)	7707	3 110104	E (A/E)	Indonesia	1993	U68191	2.09	16.3	7.74 x 10 ⁵	N/A
NP1465 (GS 027)	7708	3 110105	E (A/E)	Thailand	1995	Not in GenBank	3.7	16.7	3.21 x 10 ⁴	N/A

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BZ126 (GS 030)	7709	5 110142	F	Brazil	1989	L22083, L22082	2.7	3	5.2 x 10 ⁵	N/A
BZ162 (GS 031)	7710	3 098296	F	Brazil	1990	L11751, L22084	0.93	76	6.32 x 10 ³	4.0
BZ163 (GS 032)	7711	3 100087	F	Brazil	1990	L22086, L22085	0.66	48	14,115	3.6
HH8793 (GS 029)	7712	5 110140	G	Kenya	1993	AF061640, AF061641	15.1	72.1	1.06 x 10 ⁵	N/A

^a HVS, Harvest Virus Stock.

^b Subtype A (IbNG) viruses are A/G recombinant strains. Subtype E viruses are A/E recombinant strains.

^c TCID₅₀, 50% tissue culture infective dose.

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