

OVERVIEW

PRB947 is a 4-member HIV Seroconversion Panel collected from a single donor during seroconversion for HIV-1 p24 antigen and anti-HIV.

Panel members are undiluted aliquots from plasma units. All members were processed by filtration through 0.8µm filters. No preservatives were added.

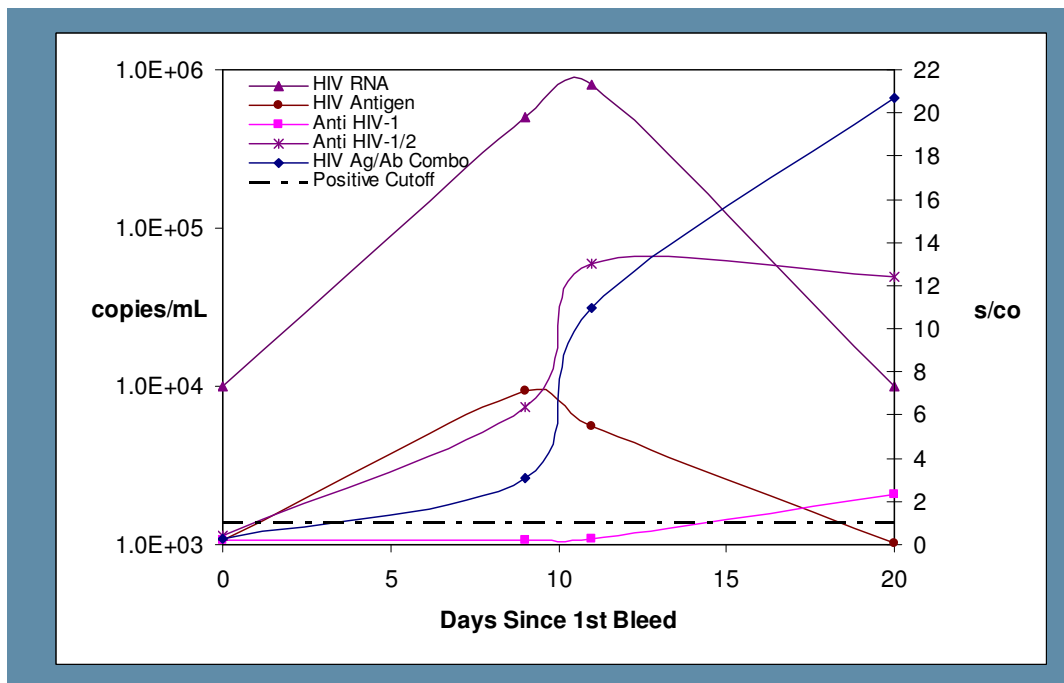
CAUTION: Potentially infectious materials. Follow Universal Precautions. Panel members were found positive for markers of HIV. All members were found negative for HBsAg and anti-HCV.

For Research Use Only. Not for use in diagnostic procedures.

Data are provided for informational purposes. SeraCare Life Sciences does not claim that others can duplicate test results exactly.

For assistance, contact SeraCare Technical Support at 508.244.6400.

EVOLUTION OF HIV MARKERS IN EARLY INFECTION



This graph demonstrates the evolution of early HIV infection, illustrated with test results over time for different analytes or analyte combinations

DATA SHEET

Nucleic Acid Tests

Panel Member:	Bleed Dates ²	Days Since 1st Bleed	Fiebig Stage ¹	Chiron bDNA HIV RNA (copies/ml)	Roche PCR HIV RNA (copies/ml)
PRB947-01	17-Dec-96	0	I	4 x 10 ³	1 x 10 ⁴
PRB947-02	26-Dec-96	9	III / IV	4 x 10 ⁵	5 x 10 ⁵
PRB947-03	28-Dec-96	11	IV	3 x 10 ⁵	>8 x 10 ⁵
PRB947-04	06-Jan-97	20	IV / V	2 x 10 ³	1 x 10 ⁴
Test Date				09-May-97	27-Mar-97
Test Site				SC	SC
Kit Part Code				6002-027	83088
Kit Lot No.				MMA279	88167
Kit Exp. Date				05-Jun-97	30-Sep-97

¹Fiebig stages are categories that define phases of early HIV infection. See Fiebig EW, et al. Dynamics of HIV viremia and antibody seroconversion in plasma donors: Implications for diagnosis and staging of primary HIV infection. AIDS 2003, 17:1871-9, and Lee HY, et al. Modeling sequence evolution in acute HIV-1 infection JTB 2009, 261:341-360

² An additional specimen from the same donor was collected April 3, 1997 (day 107) and found to be strongly reactive on Abbott HIV 1/2 and Genetic Systems HIV 1/2 EIA assays with the following bands on Ortho/Cambridge HIV 1 Western Blot: 18,24,31,41,51,55,65,120,160.

HIV Antigen Tests¹

Panel Member	Abbott HIVAG-1 Monoclonal	Coulter HIV-1 p24 Antigen Kit	Du Pont HIV p24 Core Profile Kit	Innogenetics Innotest HIV Antigen mAb	Organon Teknika
PRB947-01	0.4	0.3	0.2	0.7	0.3
PRB947-02	2.8	7.6	7.1	15.4	1.6
PRB947-03	3.0	6.6	5.5	13.6	1.7
PRB947-04	0.4	0.1	0.1	0.6	0.2
Test Date	20-Mar-97	16-Apr-97	17-Apr-97	29-May-97	18-Apr-97
Test Site	SC	SC	SC	RL	SC
Kit Part Code	2A81	PN6604535	NEK-060	K1048	59464
Kit Lot No.	25006M401	2067A594	189228	61125635	D02400D
Kit Exp. Date	30-Jun-97	12-Sep-97	24-Jun-97	30-Nov-97	21-Jan-98

¹ Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

RL = Reference Lab; SC = SeraCare Life Sciences

DATA SHEET

International HIV Antigen / Antibody Test Kits, results expressed as s/co¹

Panel Member	Bleed Dates ²	Days Since 1st Bleed	bioMerieux VIDAS DUO	Roche Enzymun-Test Combi
PRB947-01	17-Dec-96	0	0.4	0.3
PRB947-02	26-Dec-96	9	2.6	3.1
PRB947-03	28-Dec-96	11	2.5	11.0
PRB947-04	06-Jan-97	20	26.7	20.7
Test Date			17-Mar-99	13-Nov-97
Test Site			RL	RL
Kit Part Code			NA	NA
Kit Lot No.			723488201	19438201
Kit Exp. Date			03-Sep-99	30-Nov-98

¹ Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

RL = Reference Lab; SC = SeraCare Life Sciences; NA = Information not available

US FDA-Licensed Anti-HIV EIA tests, Results expressed as s/co¹

Panel Member:	Bleed Dates ²	Days Since 1st Bleed	Abbott HIV	Abbott HIV-1/2	Genetic Systems HIV	Genetic Systems HIV-1/2	Organon Teknika HIV
PRB947-01	17-Dec-96	0	0.2	0.0	0.3	0.2	0.3
PRB947-02	26-Dec-96	9	0.3	11.4	0.2	0.2	0.3
PRB947-03	28-Dec-96	11	0.4	>18.9	0.4	0.3	0.5
PRB947-04	06-Jan-97	20	1.4	>18.9	2.2	2.3	1.2
Test Date			16-Apr-97	19-Mar-97	7-May-97	18-Apr-97	23-Apr-97
Test Site			SC	SC	SC	SC	SC
Kit Part Code			3A11	3A77	0218-02	0230	59605
Kit Lot No.			26903M101	24325M301	341NX1-05	073PR1-05	160056
Kit Exp. Date			14-May-97	18-May-97	17-Jul-97	16-Jan-98	10-Apr-98

¹ Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

² An additional specimen from the same donor was collected April 3, 1997 (day 107) and found to be strongly reactive on Abbott HIV 1/2 and Genetic Systems HIV 1/2 EIA assays with the following bands on Ortho/Cambridge HIV 1 Western Blot: 18,24,31,41,51,55,65,120,160.

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DATA SHEET

International Anti-HIV 1/2 Test Kits¹

Panel Member	Days Since 1st Bleed	Abbott 3rd Generation	Abbott 3rd Generation PLUS	Abbott AxSYM	Biotest HIV 1/2	Boehringer Mannheim Enzymun Gen. 3	Dade Behring Enzygnost Anti-HIV1/2 Plus	Diagnostics Pasteur Genscreen
PRB947-01	0	0.1	0.4	0.4	0.2	0.2	0.1	0.3
PRB947-02	9	12.5	6.4	5.2	1.5	9.3	3.0	>15.5
PRB947-03	11	>18.2	>13.0	14.3	4.4	25.1	>6.8	>15.5
PRB947-04	20	>18.2	12.4	12.9	>7.6	25.3	>6.8	>15.5
Test Date		13-May-97	12-May-97	26-May-97	23-May-97	07-May-97	21-May-97	22-May-97
Test Site		RL	RL	RL	RL	SC	RL	RL
Kit Part Code		3A10	7A84	9A44	807004	1557319	QQFK	72276
Kit Lot No.		26758M201	27448 HP 00	28382 LU 04	101106	190583-01	29085	7A109U
Kit Exp. Date		17-Aug-97	11-Sep-97	14-Oct-97	07-Jun-97	30-Sep-97	05-Feb-98	15-Dec-97

¹ Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

International HIV Antibody Tests

Panel Member	Innogenetics Innotest	Murex/Wellcome HIV 1/2	Murex ICE HIV 1.0.2	Organon Teknika Uni-form II PLUS	In House IgA	In House IgM
PRB947-01	0.0	0.3	0.3	0.4	0.3	0.5
PRB947-02	0.0	2.9	3.0	2.3	2.0	3.9
PRB947-03	0.0	6.4	6.3	3.4	2.8	9.6
PRB947-04	0.5	8.9	>10.7	5.6	3.0	10.0
Test Date	07-May-97	08-May-97	06-May-97	22-May-97	12-May-97	12-May-97
Test Site	RL	RL	RL	RL	RL	RL
Kit Part Code	M421	VK55	00A1/A2/A3	80495	In House	In House
Kit Lot No.	61220885	K181510	BP F046210	96091805	NA	NA
Kit Exp. Date	30-Mar-98	28-Jun-97	28-Sep-97	28-Aug-97	19-Aug-97	19-Aug-97

¹ Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and noted in red.

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DATA SHEET

U.S. FDA-Licensed Anti-HIV-1 Confirmatory Tests

Panel Member	Days Since First Bleed	BioRad Western Blot ¹		Epitope Western Blot ¹		Ortho/Cambridge Western Blot ¹	
		Band Pattern	Result	Band Pattern	Result	Band Pattern	Result
PRB947-01	0	No Bands	NEG	No Bands	NEG	No Bands	NEG
PRB947-02	9	No Bands	NEG	No Bands	NEG	24	IND
PRB947-03	11	24	IND	24	IND	24	IND
PRB947-04	20	24,25	IND	24	IND	24,55,65,160	POS
Test Date		02-May-97		06-May-97		18-Apr-97	
Test Site		SC		SC		SC	
Kit Part Code		1971101		72827		98002	
Kit Lot No.		9711013		M1111601		C7209-056	
Kit Exp. Date		13-Jul-97		31-Oct-97		28-Jul-97	

¹ Western Blots are interpreted using ASTPHLD/CDC criteria (MMWR, vol. 38, S-7, 1989)
POS = positive; NEG = negative; IND = indeterminate

RL = Reference Lab; SC = SeraCare Life Sciences

The Product Insert for this panel in PDF form can be found at www.seracarecatalog.com

A printed copy of the Package Insert or Data Sheet may be requested by email at info@seracare.com, or by phone at 508.244.6400

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