

**OVERVIEW**

PRB956 is a five member HIV Seroconversion Panel collected from a single donor over a period of 50 days in which the donor seroconverted. This collection took place in 1997. Member 2 is a low titer HIV RNA sample. Fiebig stages I, II, and III are represented when the most sensitive antibody tests are used. Member 5 is a challenging antibody sample.

Panel Members are undiluted aliquots from plasma units. No preservatives were added.

CAUTION: Potentially infectious materials. Follow Universal Precautions. Some panel members were found positive for anti-HIV; all were found negative for HBsAg and anti-HCV.

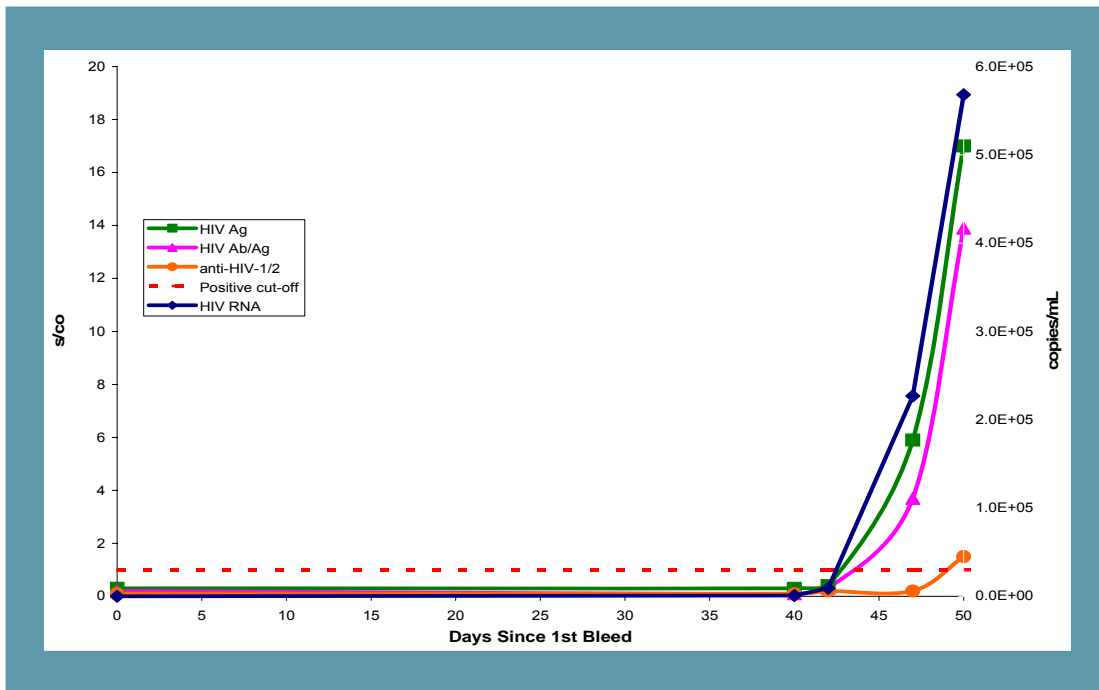
For Research Use Only. Not for use in diagnostic procedures.

Data are offered for informational purposes only. SeraCare Life Sciences does not claim these results can be duplicated exactly.

PRB956 has been tested with current test methods. This Data Sheet consists of the previously generated data along with the newly generated data. The new data are presented in bold font.

**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

PRB956

HIV RNA (copies/mL)

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Fiebig Stage <sup>1</sup>	Abbott HIV RNA m2000	Chiron Quantiplex HIV RNA 2.0 bDNA	Organon Teknika NucliSens HIV-1 QT
PRB956-01	03-Jul-97	0	NA	BLD	BLD	BLD
PRB956-02	12-Aug-97	40	I	7.1 x 10 <sup>2</sup>	1.0 x 10 <sup>2</sup>	3.0 x 10 <sup>2</sup>
PRB956-03	14-Aug-97	42	I	7.2 x 10 <sup>3</sup>	4.0 x 10 <sup>3</sup>	7.0 x 10 <sup>3</sup>
PRB956-04	19-Aug-07	47	II	1.6 x 10 <sup>5</sup>	1.0 x 10 <sup>5</sup>	4.0 x 10 <sup>5</sup>
PRB956-05	22-Aug-97	50	III	3.0 x 10 <sup>5</sup>	3.0 x 10 <sup>5</sup>	8.0 x 10 <sup>5</sup>
Test Date				14Jan11	03Nov99	07Jan00
Test Site				RL	SC	SC
Kit Part Code				6L18	116147	84043
Kit Lot No.				426021	Z015	99092304
Kit Exp Date				24Sep11	16Jan00	30Sep00

HIV RNA (copies/mL)

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Fiebig Stage <sup>1</sup>	Roche Amplicor HIV-1 Monitor	Roche HIV RNA CAP/CTM v1.0	Siemens HIV RNA bDNA
PRB956-01	03-Jul-97	0	NA	BLD	BLD	BLD
PRB956-02	12-Aug-97	40	I	8.0 x 10 <sup>2</sup>	8.3 x 10 <sup>2</sup>	8.4 x 10 <sup>1</sup>
PRB956-03	14-Aug-97	42	I	1.0 x 10 <sup>4</sup>	9.1 x 10 <sup>3</sup>	3.2 x 10 <sup>3</sup>
PRB956-04	19-Aug-07	47	II	6.0 x 10 <sup>5</sup>	2.3 x 10 <sup>5</sup>	6.3 x 10 <sup>4</sup>
PRB956-05	22-Aug-97	50	III	8.0 x 10 <sup>5</sup>	5.7 x 10 <sup>5</sup>	6.0 x 10 <sup>4</sup>
Test Date				27Feb99	19Jan11	14Jan11
Test Site				SC	RL	RL
Kit Part Code				83088	03542998 190	127418A/B
Kit Lot No.				77019	N05769	D081
Kit Exp Date				31May99	31July11	22Jan11

1 Fiebig 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.

POS=positive; NEG=negative; BLD=below the limit of detection; ALR=above linear range; NA=not applicable; f=faint; IND=Indeterminate  
MFG = Manufacturer; RL = Reference Lab; SC = SeraCare

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HIV Antigen (s/co)<sup>2</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Abbott HIVAg-1 Monoclonal EIA	COULTER HIV-1 p24 Antigen	Innogenetics HIV-1 p24 Antigen ELISA	Perkin Elmer HIVAg p24
PRB956-01	03-Jul-97	0	0.3	0.3	0.3	<b>0.3</b>
PRB956-02	12-Aug-97	40	0.4	0.3	0.4	<b>0.3</b>
PRB956-03	14-Aug-97	42	0.3	0.3	0.4	<b>0.4</b>
PRB956-04	19-Aug-07	47	<b>1.5</b>	<b>3.2</b>	<b>7.5</b>	<b>5.9</b>
PRB956-05	22-Aug-97	50	<b>3.5</b>	<b>7.2</b>	<b>20.2</b>	<b>17.0</b>
Test Date			14Oct99	22Oct99	28Oct99	<b>04Jan11</b>
Test Site			SC	SC	SC	<b>SC</b>
Kit Part Code			2A81	6604535	K-1048	<b>NEK050A</b>
Kit Lot No.			53321M301	2069D904	90301289	<b>990-101001</b>
Kit Exp Date			29Oct99	29Mar00	31Jan00	<b>01Jun11</b>

HIV Antigen/Antibody (s/co)<sup>1</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Abbott HIV Ag/Ab ARCHITECT Combo	BioMerieux HIV 1/2 DUO	Bio-Rad Genscreen Ultra HIV Ag/Ab Combo	Dade Behring Enzygnost HIV Integral
PRB956-01	03-Jul-97	0	<b>0.2</b>	0.3	<b>0.5</b>	0.0
PRB956-02	12-Aug-97	40	<b>0.1</b>	0.3	<b>0.5</b>	0.0
PRB956-03	14-Aug-97	42	<b>0.3</b>	0.4	<b>0.5</b>	0.0
PRB956-04	19-Aug-07	47	<b>3.7</b>	<b>1.3</b>	<b>2.6</b>	0.3
PRB956-05	22-Aug-97	50	<b>13.9</b>	<b>2.8</b>	<b>6.2</b>	<b>1.5</b>
Test Date			<b>25Jan11</b>	19Nov99	<b>21Jan11</b>	17Nov99
Test Site			<b>RL</b>	RL	<b>SC</b>	RL
Kit Part Code			<b>2P36-10</b>	30114	<b>72386</b>	OQTO11
Kit Lot No.			<b>92447HN00</b>	735175301	<b>OG0058</b>	30769
Kit Exp Date			<b>19Apr11</b>	27Aug00	<b>30Dec11</b>	28Dec99

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

POS=positive; NEG=negative; BLD=below the limit of detection; ALR=above linear range; NA=not +9applicable ; f=faint; IND=Indeterminate  
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HIV Antigen/Antibody (s/co) <sup>1</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Murex HIV Ag/Ab Combo	Organon Teknika Vironostika HIV Uni-Form II	Roche Enzymun Test HIV Combi
PRB956-01	03-Jul-97	0	0.3	0.4	0.2
PRB956-02	12-Aug-97	40	0.3	0.4	0.2
PRB956-03	14-Aug-97	42	0.4	0.4	0.2
PRB956-04	19-Aug-07	47	2.5	0.4	0.3
PRB956-05	22-Aug-97	50	8.3	0.5	0.8
Test Date			13Jan11	06Dec99	15Nov99
Test Site			SC	SC	RL
Kit Part Code			7G79-11	84138	1877631
Kit Lot No.			L417810	99101501	19853601
Kit Exp Date			31Mar11	30Sep00	31Mar01

HIV-1 Antibody (s/co) <sup>1</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Abbott HIV-1 EIA	Genetic Systems HIV-1	Organon Teknika Vironostika® HIV-1 EIA
PRB956-01	03-Jul-97	0	0.2	0.1	0.3
PRB956-02	12-Aug-97	40	0.2	0.1	0.3
PRB956-03	14-Aug-97	42	0.2	0.1	0.3
PRB956-04	19-Aug-07	47	0.2	0.1	0.3
PRB956-05	22-Aug-97	50	0.2	0.1	0.3
Test Date			21Oct99	21Oct99	16Oct99
Test Site			SC	SC	SC
Kit Part Code			3A11	32511	59605
Kit Lot No.			55566M201	081RAA-05	160106
Kit Exp Date			11Nov99	10Dec99	07Apr00

<sup>1</sup> 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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HIV-1/2 Antibody (s/co) <sup>1</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Abbott 3rd Generation HIV-1/2 rDNA EIA PLUS	Abbott HIV-1/2 EIA	Abbott AxSYM HIV-1/2	Abbott PRISM HIV-1/2	Abbott HIV PRISM
PRB956-01	03-Jul-97	0	0.2	0.1	0.4	0.3	<b>0.3</b>
PRB956-02	12-Aug-97	40	0.3	0.1	0.5	0.3	<b>0.4</b>
PRB956-03	14-Aug-97	42	0.2	0.1	0.4	0.3	<b>0.4</b>
PRB956-04	19-Aug-07	47	0.2	0.1	0.4	0.2	<b>0.4</b>
PRB956-05	22-Aug-97	50	0.7	0.8	0.5	<b>1.0</b>	<b>0.9</b>
<b>Test Date</b>			15Nov99	13Oct99	14Dec99	27Oct99	<b>24Feb11</b>
<b>Test Site</b>			RL	SC	RL	RL	<b>RL</b>
<b>Kit Part Code</b>			7A84	3A77	9A44	4A27	<b>3L68-68</b>
<b>Kit Lot No.</b>			57381HP00	53640M301	59152LU00	57376HP00	<b>93390M500</b>
<b>Kit Exp Date</b>			04May00	22Oct99	14Apr00	22May00	<b>03Sep11</b>

HIV-1/2 Antibody (s/co) <sup>1</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Bio-Rad HIV-1/HIV-2 Plus O Gen Sys	Diag. Past. Access HIV-1/2	Diag. Past. Genscreen HIV-1/2	Fujirebio Serodia HIV-1/2	Genetic Systems HIV-1/2 Peptide EIA
PRB956-01	03-Jul-97	0	<b>0.1</b>	0.2	0.1	-	0.2
PRB956-02	12-Aug-97	40	<b>0.1</b>	0.3	0.1	-	0.1
PRB956-03	14-Aug-97	42	<b>0.1</b>	0.2	0.1	-	0.1
PRB956-04	19-Aug-07	47	<b>0.1</b>	0.2	0.1	-	0.1
PRB956-05	22-Aug-97	50	<b>0.6</b>	0.3	<b>2.2</b>	+/-	0.2
<b>Test Date</b>			<b>20Dec10</b>	01Dec99	03Nov99	03Nov99	16Oct99
<b>Test Site</b>			<b>SC</b>	RL	RL	RL	SC
<b>Kit Part Code</b>			<b>32588</b>	3400	72278	71110	32551
<b>Kit Lot No.</b>			<b>209EBB-05</b>	994649	9HO16U	M281204	153RP1-05
<b>Kit Exp Date</b>			<b>15Apr11</b>	15May00	31Aug00	21Dec99	15Apr00

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HIV-1/2 Antibody (s/co) <sup>1</sup>

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Murex / Wellcozyme HIV-1.2.O	Ortho HIV-1/2 Ab-Capture ELISA	Ortho HIV-1/HIV-2 Vitros Eci	Ortho HIV-1/HIV-2 Vitros Eci	Roche DAGS	Siemens HIV1/O/2 Enhanced Advia Centaur
PRB956-01	03-Jul-97	0	0.3	0.0	0.1	<b>0.1</b>	0.2	<b>0.1</b>
PRB956-02	12-Aug-97	40	0.3	0.0	0.1	<b>0.2</b>	0.2	<b>0.1</b>
PRB956-03	14-Aug-97	42	0.3	0.0	0.1	<b>0.1</b>	0.3	<b>0.2</b>
PRB956-04	19-Aug-07	47	0.5	0.2	0.2	<b>0.4</b>	0.2	<b>0.2</b>
PRB956-05	22-Aug-97	50	<b>2.9</b>	<b>2.2</b>	<b>2.1</b>	<b>3.7</b>	0.7	<b>1.5</b>
Test Date			14Oct99	26Oct99	01Nov99	<b>14Jan11</b>	16Nov99	<b>07Feb11</b>
Test Site			SC	RL	RL	<b>RL</b>	RL	<b>RL</b>
Kit Part Code			GE94	932360	124 1850	<b>6801861</b>	756059	<b>01463908</b>
Kit Lot No.			F796210	HVK130-2	71	<b>0370</b>	B1033	<b>C071</b>
Kit Exp Date			28Feb00	09Dec99	23May00	<b>30Jun11</b>	30Apr00	<b>28Apr11</b>

Anti-HIV-1 Confirmatory

Panel Member	Bleed Date	Days Since 1 <sup>st</sup> Bleed	Bio-Rad Western Blot Band Pattern	Bio-Rad Western Blot Result
PRB956-01	03-Jul-97	0	No Bands	NEG
PRB956-02	12-Aug-97	40	No Bands	NEG
PRB956-03	14-Aug-97	42	No Bands	NEG
PRB956-04	19-Aug-07	47	No Bands	NEG
PRB956-05	22-Aug-97	50	No Bands	NEG
Test Date				15Nov99
Test Site				SC
Kit Part Code				1970001
Kit Lot No.				97165501
Kit Exp Date				24Feb00

<sup>1</sup> 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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A printed PI and Data Sheet may be requested by email to [info@seracare.com](mailto:info@seracare.com), or by phone to 508.244.6400