

DATA SHEET

OVERVIEW

WWRB305 is an HIV Worldwide Performance Panel with twenty undiluted 0.5 mL plasma samples from different individuals positive for thirteen HIV subtypes, including several rare circulating recombinant forms and mixed subtypes. Represented in this panel are subtypes A, B, C, CRF01_AE, CRF02_AG, CRF03_AB, D, G, K, H/A1, K/CRF09, G/CRF02, and CRF01/CRF15, collected from nine countries in Europe, Africa, Central and South America, and Central and Southeast Asia. Panel members were tested for HIV-1 RNA, HIV p24 antigen, and anti-HIV-1 and anti-HIV-2, using a variety of commercially available test methods, including rapid and confirmatory tests and 4th generation screening tests for Ag/Ab. Subtypes were determined using commercially available HIV RNA sequencing methods.

All members are undiluted plasma samples processed by filtration through 0.8 µ filters. No preservatives were added.

CAUTION: Potentially infectious materials. Follow Universal Precautions.¹
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.

REFERENCE

1. CDC recommendations for prevention of HIV transmission in health care settings. MMWR 36 (supp.2) 1987.

For assistance, contact SeraCare Technical Support at 508.244.6400.

Worldwide Prevalence of HIV-1 Subtypes



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HIV RNA and Antigen

Panel Member	Country of Origin	Subtype ¹	Perkin Elmer HIV Ag p24 (s/co) ²	Roche Ampliprep/Taqman HIV RNA v2.0 (copies/mL)
WWRB305-01	Kyrgyzstan	A	0.2	5.2 x 10 ⁴
WWRB305-02	Honduras	B	2.3	2.6 x 10 ⁴
WWRB305-03	Ecuador	B	0.3	1.7 x 10 ⁵
WWRB305-04	South Africa	C	0.3	3.3 x 10 ³
WWRB305-05	NA	C	0.3	1.0 x 10 ⁴
WWRB305-06	Germany	CRF01_AE	0.3	7.2 x 10 ⁴
WWRB305-07	Kyrgyzstan	CRF01_AE	0.3	1.1 x 10 ⁵
WWRB305-08	Nigeria	CRF02_AG	0.2	4.4 x 10 ²
WWRB305-09	Ecuador	CRF02_AG	0.6	1.2 x 10 ⁵
WWRB305-10	Kyrgyzstan	CRF02_AG	0.3	5.2 x 10 ⁴
WWRB305-11	Germany	CRF03_AB	0.3	2.2 x 10 ⁴
WWRB305-12	Kyrgyzstan	CRF03_AB	0.3	1.1 x 10 ³
WWRB305-13	Germany	D	0.3	3.3 x 10 ⁴
WWRB305-14	Germany	D	0.4	1.3 x 10 ⁴
WWRB305-15	Germany	G	0.3	4.4 x 10 ⁴
WWRB305-16	Ivory Coast	K	0.3	1.5 x 10 ⁴
WWRB305-17	Congo	H/A1	0.3	1.2 x 10 ³
WWRB305-18	Congo	K/CRF09	0.3	5.4 x 10 ²
WWRB305-19	Congo	G/CRF02	0.3	2.0 x 10 ⁴
WWRB305-20	Thailand	CRF01/CRF15	0.3	9.0 x 10 ⁴
Test Date			15-Aug-11	15-Aug-11/16-Aug-11
Test Site			SC	SC
Kit Part Code			NEK050A	05212308 190
Kit Lot No.			990-11191	N12598
Kit Exp Date			01-Jan-12	31-Oct-11

1 Subtypes were determined using commercially available HIV RNA sequencing methods.

2 HIV p24 results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and are noted in red.

NA = Not Available
SC = SeraCare

DATA SHEET

HIV Antigen/Antibody (s/co)¹

Panel Member	Subtype ²	Abbott HIV Ag/Ab Combo ARCHITECT	Bio-Rad Genscreen Ultra HIV Ag/Ab Combo	Siemens Enzygnost HIV Integral II
WWRB305-01	A	589.4	>9.7	>15.5
WWRB305-02	B	592.1	>9.7	>15.5
WWRB305-03	B	218.3	>9.7	>15.5
WWRB305-04	C	310.3	>9.7	>15.5
WWRB305-05	C	419.8	>9.7	>15.5
WWRB305-06	CRF01_AE	397.6	>9.7	>15.5
WWRB305-07	CRF01_AE	795.4	>9.7	>15.5
WWRB305-08	CRF02_AG	775.0	>9.7	>15.5
WWRB305-09	CRF02_AG	396.3	>9.7	>15.5
WWRB305-10	CRF02_AG	87.7	>9.7	>15.5
WWRB305-11	CRF03_AB	442.7	>9.7	>15.5
WWRB305-12	CRF03_AB	813.0	>9.7	>15.5
WWRB305-13	D	92.3	>9.7	>15.5
WWRB305-14	D	587.7	>9.7	>15.5
WWRB305-15	G	620.8	>9.7	>15.5
WWRB305-16	K	363.2	>9.7	>15.5
WWRB305-17	H/A1	452.3	>9.7	15.0
WWRB305-18	K/CRF09	245.9	>9.7	>15.5
WWRB305-19	G/CRF02	857.7	>9.7	>15.5
WWRB305-20	CRF01/CRF15	143.4	>9.7	15.4
Test Date		27-Jun-11	11-Nov-11	15-Aug-11
Test Site		SC	SC	SC
Kit Part Code		2P36	72386	OPAA09
Kit Lot No.		94518HN00	1F1068	39982
Kit Exp Date		11-Jul-11	15-Nov-12	08-Dec-11

1 Immunoassay results are means of duplicates expressed as signal to cutoff ratios (s/co). Ratios ≥1.0 are considered reactive and are noted in red.
2 Subtypes were determined using commercially available HIV RNA sequencing methods.

RL = Reference Lab; SC = SeraCare

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HIV Antibody (s/co)¹

Panel Member	Subtype ²	Avioq HIV-1 Microelisa System	Abbott/Murex HIV 1.2.O	Bio-Rad HIV-1/2/O
WWRB305-01	A	8.5	>9.3	>10.9
WWRB305-02	B	8.5	>9.3	>10.9
WWRB305-03	B	>8.5	>9.3	>10.9
WWRB305-04	C	8.5	>9.3	>10.9
WWRB305-05	C	>8.5	>9.3	>10.9
WWRB305-06	CRF01_AE	>8.5	>9.3	>10.9
WWRB305-07	CRF01_AE	8.5	>9.3	>10.9
WWRB305-08	CRF02_AG	8.5	>9.3	>10.9
WWRB305-09	CRF02_AG	8.4	>9.3	>10.9
WWRB305-10	CRF02_AG	>8.5	>9.3	>10.9
WWRB305-11	CRF03_AB	8.5	>9.3	>10.9
WWRB305-12	CRF03_AB	8.4	>9.3	>10.9
WWRB305-13	D	6.8	>9.3	>10.9
WWRB305-14	D	8.5	>9.3	>10.9
WWRB305-15	G	>8.5	>9.3	>10.9
WWRB305-16	K	8.5	>9.3	>10.9
WWRB305-17	H/A1	8.5	>9.3	>10.9
WWRB305-18	K/CRF09	>8.5	>9.3	>10.9
WWRB305-19	G/CRF02	8.4	>9.3	>10.9
WWRB305-20	CRF01/CRF15	8.3	>9.3	>10.9
Test Date		15-Aug-11	08-Sep-11	17-Sep-11
Test Site		SC	SC	SC
Kit Part Code		100384	GE94	32588
Kit Lot No.		J1811	L513710	091FBB-05
Kit Exp Date		16-Feb-12	31-Mar-12	09-Dec-11

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

2 Subtypes were determined using commercially available HIV RNA sequencing methods.

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Anti-HIV 1/2 and HIV Ag/Ab Rapid Tests and Western Blot

Panel Member	Bio-Rad Multispot HIV-1 Result	Bio-Rad Multispot HIV-2 Result	Inverness Determine HIV Ag Result	Inverness Determine HIV Ab Result	Calypte HIV-1 Western Blot Band Pattern	Calypte HIV-1 Western Blot Result
WWRB305-01	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-02	Pos	Neg	Neg	Pos	f24, 31, 41, 51, f55, 65/66, 120, 160	Pos
WWRB305-03	Pos	Neg	Neg	Pos	24, 31, 41, 51, f55, 65/66, 120, 160	Pos
WWRB305-04	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-05	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-06	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-07	Pos	Neg	Neg	Pos	f18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-08	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-09	Pos	Neg	Neg	Pos	24, 31, 41, 51, 65/66, 120, 160	Pos
WWRB305-10	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-11	Pos	Neg	Neg	Pos	18, 24, f31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-12	Pos	Neg	Neg	Pos	f24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-13	Pos	Neg	Neg	Pos	24, f41, f65/66, 120, 160	Pos
WWRB305-14	Pos	Neg	Neg	Pos	24, 31, 41, 51, 65/66, 120, 160	Pos
WWRB305-15	Pos	Neg	Neg	Pos	24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-16	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-17	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-18	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-19	Pos	Neg	Neg	Pos	18, 24, 31, 41, 51, 55, 65/66, 120, 160	Pos
WWRB305-20	Pos	Neg	Neg	Pos	24, 31, 41, 51, 55, 65/66, 120, 160	Pos
Test Date	24-Aug-11		08-Sep-11		18-Aug-11	
Test Site	SC		SC		SC	
Kit Part Code	25228		7D2646		98002	
Kit Lot No.	106398		11052ALCE		A2149-105	
Kit Exp Date	09-Mar-12		25-Mar-12		28-May-12	

Pos = Positive; Neg = Negative; f = Faint

SC = SeraCare

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