

2. Specimen less than 5μL (the first mark line of the dropper) or more than 15μL (the third mark line of the dropper) may cause incorrect results.
3. The test result will be incorrect when adding the specimen and buffer in wrong position or sequence.

PERFORMANCE CHARACTERISTICS

1. Analytical performance study - Interfering substances

Summary of test results for determination of analytical specificity: potentially interfering substances.

A. Specimens of HIV-1 positive

Potentially interfering substance	Number	Number of erroneous result	
		Not spiked with anti-HIV positive specimen	Spiked with anti-HIV positive specimen
Alcohol	6	0	0
Haemoglobin	4	0	0
Direct bilirubin	7	0	0
Total bilirubin	17	0	0
Triglyceride	17	0	0
High-cholesterol	9	0	0
Low density lipoprotein	15	0	0
Rheumatic factor	25	0	0
IgM gammopathies	10	0	0
IgG gammopathies	2	0	0
Pregnant women	31	0	0
Systemic lupus erythematosus (SLE)	8	0	0
Anti-nuclear antibodies (ANA)	8	0	0
Anti-escherichia coli	2	0	0
Total	161	0	0

2. Analytical performance study - Cross reactivity

Summary of test results for determination of analytical specificity: potentially cross-reacting unrelated infections and diseases.

Potentially cross-reacting substance	Number	Number of erroneous result
Malaria	27	0
Epstein-Barr virus immunoglobulin (EBV IgM) ¹	5	2
Epstein-Barr virus immunoglobulin (EBV IgM) ²	60	0
Influenza antibody	13	0
Cytomegalovirus immunoglobulin M (CMV IgM)	5	0
Syphilis	5	0
Herpes simplex virus (HSV)	5	0
Anti-HBc	15	0
Anti-HBs	15	0
Anti-HCV	15	0
Anti-HTLV 1/2	15	0
Anti-HEV	10	0
Total	185	2

NOTE:

- Testing in the third party Institute of Tropical Medicine
- Testing in Guangzhou Wondfo Biotech Co., Ltd.

3. Analytical performance study - Analytical sensitivity

A total of 45 HIV seroconversion panels were tested, 25 of which were tested by Wondfo and 20 were tested by a third party institution. Among the 25 HIV seroconversion panels tested by Wondfo with a commercially available WHO prequalified HIV ELISA reagent as reference assay, HIV antibody in 6 panels was detected by Wondfo One Step HIV1/2 Whole Blood/Serum/Plasma Test earlier than that by the ELISA; HIV antibody in 2 panels that detected by Wondfo One Step HIV1/2 Whole Blood/Serum/Plasma Test were later than that by the ELISA; and HIV antibody in 17 panels were detected by both assays at the same bleeding.

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For the 20 HIV seroconversion panels tested by the third party institution, 4 CE marked HIV ELISA reagents were set as reference assay. From the 111 seroconversion panel members, the One Step HIV 1/2 Whole Blood/Serum/Plasma Test detected 18 samples more than the least sensitive CE marked antibody test and 4 samples less than the most sensitive CE marked antibody test.

4. Analytical performance study - HIV-1 subtypes positive specimens

The HIV-1 Worldwide Performance Panel, the WHO International Standard HIV (antibody), 1st International Panel (NIBSC code: 02/210) and 50 specimens with various subtypes (10 specimens for each of subtypes A1, B, C, CRF02_AG and G) were tested by Wondfo. And 40 specimens with various subtypes were tested by a third party institution, including 3 specimens for each of following subtypes: C, CRF01_AE, CRF02_AG, CRF06_cpx, CRF36_cpx, D, G, group O, H, J, and K, 2 specimens for subtypes A, F1 and F2, and 1 specimen for subtype A1.

Wondfo One Step HIV1/2 Whole Blood/Serum/Plasma Test can detect HIV-2 antibodies and the following subtypes of HIV-1 antibodies: Group O, subtype A, subtype A1, subtype B, subtype C, subtype D, subtype F1, subtype F2, subtype H, subtype J, subtype K, subtype G, CRF01-AE, CRF02_AG, CRF06_cpx, CRF36_cpx and CRF02-AG.

5. Clinical performance study - Diagnostic sensitivity

Summary of results of a clinical study to determine diagnostic sensitivity.

Specimens type	No. of specimens	False negative	Sensitivity	95% Confidence Interval
Serum	456	0	100%	(99.18, 100)
Plasma	620	0	100%	(99.38, 100)
Whole venous blood	100	0	100%	(96.30, 100)
Total	1176	0	100%	(99.67, 100)

B. Specimens of HIV-2 positive

Specimens type	No. of specimens	False negative	Sensitivity	95% Confidence Interval
Plasma	100	0	100%	(96.30, 100)

6. Clinical performance study - Diagnostic specificity

Summary of results of a clinical study to determine diagnostic specificity.

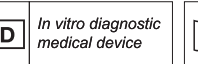

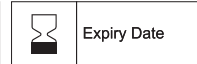
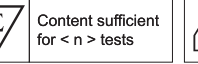
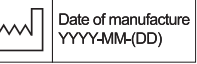
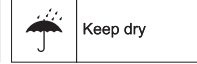
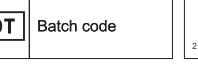

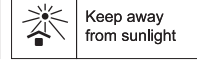
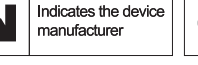
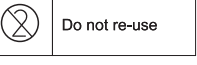
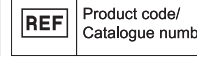
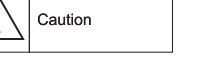
Specimens type	No. of specimens	False positive	Specificity	95% Confidence Interval
Serum	331	0	100.00%	(98.85, 100)
Plasma	1904	1	99.95%	(99.70, 99.99)
Whole venous blood	500	0	100.00%	(99.24, 100)
Total	2735	1	99.96%	(99.79, 99.99)

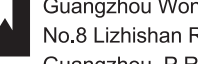
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- Bernard M. Branson. State of the Art for Diagnosis of HIV Infection. Clinical Infectious Diseases 2007; 45: S221–S225.
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SYMBOLS KEY

 In vitro diagnostic medical device	 Consult Instructions for Use	 Expiry Date
 Content sufficient for < n > tests	 Date of manufacture YYYY-MM-(DD)	 Keep dry
 Batch code	 Temperature limit	 Keep away from sunlight
 Indicates the device manufacturer	 Do not re-use	 Product code/ Catalogue number
 Caution		

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