

Supplemental Table 2. Test Results from 38 Recommended Algorithm-Defined Ag/Ab False-Reactive Specimens.

Specimen No.	ARC (S/CO)	GS (S/CO)	CHIV (S/CO)	BPC (Index)	DC (Ag/Ab)	Geenius interpretation v1.1	Repeat Geenius interpretation v1.1	Apt-Qual	1:5 Roche VL*
1	11.6	6.76	12.0	163	Ag neg/Ab neg	HIV-1 Indeterminate	n/d	Negative	TND
2	8.92	13.0	12.0	24.9	Ag neg/Ab pos	HIV Negative	HIV Negative	Negative	TND
3	3.68	0.285	0.0771	0.03	Ag neg/Ab neg	HIV-2 Indeterminate [†]	HIV-2 Indeterminate [†]	Negative	TND
4	3.54	0.245	0.0645	0.06	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
5	3.44	8.73	0.441	0.33	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
6	2.42	0.321	0.0679	0.07	Ag neg/Ab neg	HIV-2 Indeterminate [†]	HIV Negative	Negative	TND
7	2.00	0.202	0.0493	0.11	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
8	1.89	0.514	0.990	0.7	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
9	1.77	0.204	0	0.08	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
10	1.64	0.175	0.102	0.04	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
11	1.43	0.195	0.0653	0.07	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
12	1.12	0.211	0.0403	0.1	Ag neg/Ab neg	HIV-2 Indeterminate [†]	HIV Negative	Negative	TND
13	1.05	0.242	0.0688	0.05	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
14	0.566	1.35	0	0.1	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
15	0.521	1.60	0.159	0.06	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
16	0.313	0.1	1.05	0.22	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
17	0.229	0.1	2.07	3.49	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
18	0.183	0.1	3.31	0.06	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
19	0.169	1.2	0.0865	0.09	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
20	0.168	0.1	1.14	0.07	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
21	0.167	0.19	1.95	0.1	Ag pos/Ab pos	HIV Negative	HIV Negative	Negative	TND
22	0.158	14.6	0.0789	0.05	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
23	0.153	0.1	0.168	8.5	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
24	0.134	15.6	0.097	0.08	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND

25	0.115	0.405	0.0587	7.15	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
26	0.107	0.1	1.00	0.15	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
27	0.107	0.1	0	17.4	Ag neg/Ab neg	HIV-2 Indeterminate	n/d	Negative	TND
28	0.107	0.1	0.127	1.24	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
29	0.106	0.1	1.63	0.57	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
30	0.103	0.1	1.59	4.21	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
31	0.0986	15.6	0.242	0.05	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
32	0.0983	0.272	0.217	1.6	Ag neg/Ab neg	HIV Negative	HIV Negative	Negative	TND
33	0.0862	1.64	0.875	1.75	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
34	0.0758	0.1	0.0807	>200	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
35	0.0741	1.16	0.0852	0.01	Ag neg/Ab pos	HIV Negative	n/d	Negative	TND
36	0.0695	0.219	0.0369	56.6	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
37	0.0623	0.1	1.97	0.1	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND
38	0.0595	0.1	0.0929	4.65	Ag neg/Ab neg	HIV Negative	n/d	Negative	TND

Abbreviations: ARC, Abbott ARCHITECT HIV Ag/Ab Combo; GS, Bio-Rad GS HIV Combo Ag/Ab EIA; CHIV, Siemens ADVIA Centaur HIV Ag/Ab Combo; BPC, Bio-Rad BioPlex 2200 HIV Ag-Ab; DC, Alere Determine HIV-1/2 Ag/Ab Combo; S/CO, signal to cutoff value; Apt-Qual, Aptima HIV-1 RNA Qualitative Assay; Roche, Roche COBAS AmpliPrep/ COBAS TaqMan HIV-1 Test; TND, target not detected; n/d, not done.

Bold text indicates specimen had false-reactive Ag/Ab results on more than 1 Ag/Ab test.

Note: only the initially reactive Ag/Ab screening results were used in this analysis because repeated Ag/Ab testing of initially reactive specimens was not performed for every specimen. Repeated Geenius tests are displayed for the subset of specimens for which the repeated test was done.

*Roche viral load assay performed with off-label 1:5 dilution protocol; limit of detection (LOD) not measured.

† gp140 band only