

Electronic Supplementary Material

A quantitative RT-PCR assay for rapid detection of Eurasian-lineage H10 subtype influenza A virus

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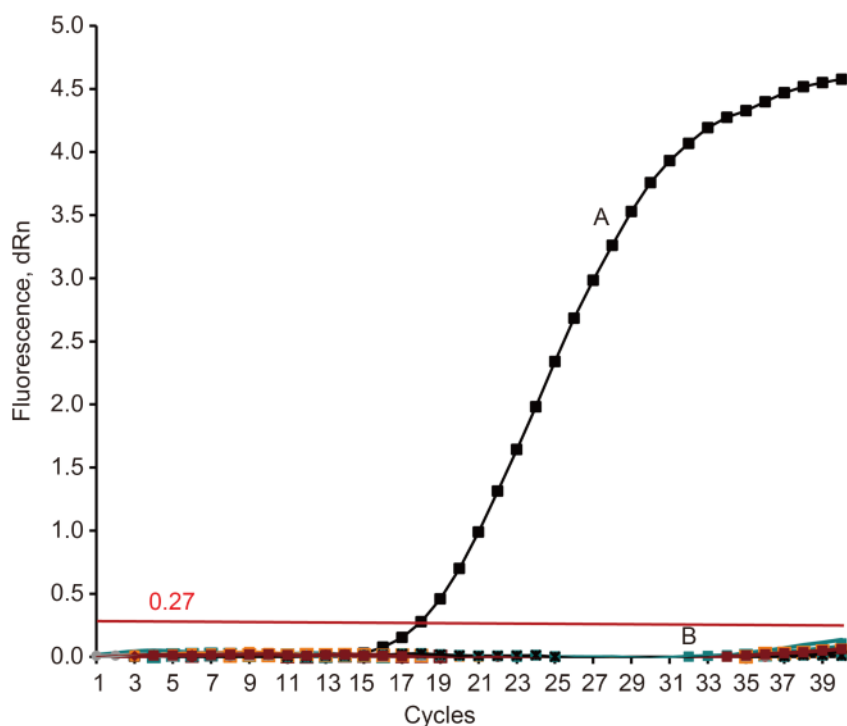


Figure S1. Specificity of quantitative RT-PCR for the detection of Eurasian-lineage H10 influenza A virus. Line A represents the amplification for the reassortant virus A/chicken/Jiangxi/JXA132717/2013 (HA, NA) × A/Puerto Rico/8/1934 (H10N8) amplification; Line B represents the amplifications of other influenza virus subtypes, including H1, H5, H7, H9, and North American-lineage H10N7 viruses, as well as other non-influenza avian viruses (Newcastle disease virus, infectious bursal disease virus, infectious bronchitis virus, and reovirus). The control reaction was conducted by using DEPC-treated water as template. The number of cycles (Ct) was calculated based on the maximum baseline-corrected normalized reporter (dRn) threshold of 0.27. Each assay was performed in triplicate.

Table S1. Viruses used to determine the specificity of a Eurasian-lineage H10 specific quantitative RT-PCR method

Host	Virus name
Human	A/Puerto Rico/8/1934(H1N1)
	A/California/04/2009(H1N1)
	A/Brisbane/10/2005(H3N2)
	A/Perth/16/2009(H3N2)
Avian	A/mallard/Oregon/A00544081/2008(H1N1)
	A/mallard/Wisconsin/A00751454/2009(H1N1)
	A/mallard/Oregon/A00300758/2008(H2N3)
	A/mallard/Oregon/A00320372/2007(H2N3)
	A/mallard/Wisconsin/A00661712/2009(H3N2)
	A/mallard/Wisconsin/A00714818/2009(H3N2)
	A/mallard/Colorado/A00170379/2006(H3N8)
	A/mallard/Wisconsin/A00170366/2006(H3N8)
	A/mallard/Washington/A00714770/2009(H4N6)
	A/mallard/Washington/A00757090/2009(H4N6)
	A/chicken/Jiangxi/JXA132321/2013(H5N?) ^a
	A/mallard/Colorado/A00551322/2007(H6N1)
	A/mallard/New York/A00603000/2009(H6N1)
	A/blue-winged teal/Illinois/10OS3610/2010(H6N2)
	A/mallard/Ohio/81/1986(H6N2)
	A/mute swan/Rhode Island/A00325114/2008(H7N3)
	A/american green-winged teal/Utah/A00461135/2009(H7N1)
	A/northern shoveler/Mississippi/A00630207/2009(H7N6)
	A/chicken/Jiangxi/JXA132304/2013(H9N2) ^a
	A/mallard/South Dakota/A00536114/2007(H10N7)
	A/mallard/New York/A00919062/2009(H10N7)
	A/chicken/Jiangxi/JXA132717/2013 (H10N8) ^a
	Avian
Infectious bursal disease virus (strain P13-03308)	
Infectious bronchitis virus (strain P14-00957ct)	
Reovirus (strain P14-00932)	

Note: ^a: The RNA from these viruses was extracted directly from a clinical swab sample; for all others viruses, the RNA was extracted from virus isolates.