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### Avian Influenza H7 Real-time PCR Comparison

Australian Animal Health Laboratory (AAHL)

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Viral Panel	FLI-H7* Test Results (CT)	AAHL H7** Test Results (CT)	CNIC-H7# Test Results (CT)	CNIC-N9## Test Results (CT)
H7N9 (A/Anhui/1/2013)	9.90	24.27	12.30	10.60
H7N9 (A/Anhui/1/2013) 10 <sup>-1</sup>	12.83	27.11	14.50	12.90
H7N9 (A/Anhui/1/2013) 10 <sup>-2</sup>	16.68	30.46	19.50	18.80
H7N9 (A/Anhui/1/2013) 10 <sup>-3</sup>	24.27	34.17	24.0	27.50
H7N9 (A/Anhui/1/2013) 10 <sup>-4</sup>	25.51	38.40	30.20	32.30
H7N9 (A/Anhui/1/2013) 10 <sup>-5</sup>	29.35	44.20	32.30	33.0
H7N9 (A/Anhui/1/2013) 10 <sup>-6</sup>	31.91	Undetected	35.90	36.08
H7N9 (A/Anhui/1/2013) 10 <sup>-7</sup>	35.15	Undetected	37.61	Undetected
H7N3 A/Indonesia/2007	27.84	24.0	37.7	Undetected
H7N4 A/Chicken/NSW/327/1997	32.47	24.4	Undetected	Undetected
H7N6 A/grey teal/Victoria/512/2007	34.17	24.7	Undetected	Undetected
H7N7 A/duck/Victoria/1976	25.34	21.50	Undetected	Undetected
H11N9 A/Sharp-tailed Sandpiper/Australia/10/2004	Undetected	Undetected	Undetected	13.9
H11N9 A/Mallard/South Korean/1A/2006	Undetected	Undetected	Undetected	20.8

The results given are based on serial dilutions of the H7N9 virus kindly supplied by the WHO Collaborating Centre for Reference and Research on Influenza, Melbourne, together with four other H7 viruses from the AAHL collection propagated in ECE. Primer and probe specifications were those given in earlier OFFLU communications.

\*FLI-H7: OFFLU recommended H7 real-time PCR assay

\*\*AAHL H7: Australian Animal Health Laboratory H7 real-time PCR assay.

The real-time PCR assays were performed in an AB 7500 Fast Real-time PCR system using conditions recommended by FLI with the FLI reagents and the AAHL standard test in parallel testing.

#CNIC- H7: WHO recommended H7 real-time PCR assay.

##CNIC-N9: WHO recommended N9 real-time PCR assay.

The real-time PCR assays, CNIC-H7 and CNIC-N9 were performed in an AB 7500 Fast Real-time PCR system using conditions recommended by CNIC with the CNIC reagents.