

## **WHO Collaborating Centre for Reference and Research on Influenza, Melbourne**

### **Supplementary Reagents for Influenza Virus Diagnosis 2009**

This kit contains reagents for the identification of pandemic H1N1 2009 influenza (H1N1 pdm also known as swine influenza) using the haemagglutination inhibition assay. The reagents supplement and can be used in conjunction with the initial 2009 kit which was previously distributed by this Centre. ([www.influenzacentre.org](http://www.influenzacentre.org))

Details of the kit components are:-

#### Reference antigen – 10mL

This is a preparation of A/California/7/2009 (H1N1) pdm. It is an egg-grown virus which has been concentrated, partially purified, inactivated by treatment with beta-propiolactone and suspended in phosphate buffered saline. It contains 0.1% sodium azide as a preservative and is relatively stable at 2-8°C. Do not freeze. The haemagglutinating titre of the reagent is approximately 2000 when Turkey red blood cells are used.

#### Reference antiserum – 10mL

This is prepared by inoculating rabbits with concentrated purified A/California/7 2009 influenza virus and the resultant antiserum then being RDE treated to remove inhibitors. It contains 0.1% sodium azide as preservative and is stable for many months at 2-8°C. It should not be repeatedly frozen and thawed.

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Please note that we have moved from our old address at 45 Poplar Rd, Parkville, Victoria 3052, Australia.

The following table shows the haemagglutination inhibition test titres of these reagents (and those which were issued with the initial kit) versus recent field isolates.

### HAI Reactions of the 2009 Reagents

Reference Antigens		Reference Antisera				
		1 A/Bris/10	2 A/Bris/59	3 B/Flor/ 4	4 B/Bris/60	5 A/Calif/7
1	A/Brisbane/10/2007 - like	64	<1	<1	<1	<1
2	A/Brisbane/59/2007 - like	<1	32	<1	<1	<1
3	B/Florida/4/2006 - like	<1	<1	128	8	<1
4	B/Brisbane/60/2008- like	<1	<1	8	64	<1
5	A/California/7/2009- like	<1	4	8	<1	128
<b>Field Isolates</b>						
	A/Canberra/21/2009 (H3)	32	<1	<1	<1	<1
	A/Macau/2706/2009 (H3)	32	<1	<1	<1	<1
	A/Perth/169/2009 (H1)	<1	64	<1	<1	<1
	A/Philippines/3314/2009 (H1)	<1	16	<1	<1	<1
	B/Chiang Rai/63/2009 (B/Florida/4/2006 - like)	<1	<1	128	<1	<1
	B/Chantaburi/55/2009 (B/Florida/4/2006 - like)	<1	<1	128	<1	<1
	B/Sydney/1/2009 (B/Brisbane/60/2008 - like)	<1	<1	<1	64	<1
	B/Singapore/8/2009 (B/Brisbane/60/2008 - like)	<1	<1	<1	64	<1
	A/Philippines/2350/2009 (H1 Pandemic strain)	<1	<1	<1	<1	64
	A/Samoa/3/2009 (H1 Pandemic strain)	<1	<1	<1	<1	64

- **Results obtained using Turkey red blood cells.** Similar titres are found when using Guinea Pig red blood cells, however titres may be lower when using fowl red blood cells particularly with A(H3N2) viruses.
- <1 = no inhibition observed in the presence of undiluted treated sera.