

## Recognition of H1N1 field strains by the Influenza A&B Respi-Strip kit

### METHODOLOGY:

17 field strains of A/H1N1 or A/H3N2 type have been typed and isolated on MDCK cells from clinical samples of the epidemic season of 2008. This work was conducted at the Institute of Public Health in Brussels. They were then analyzed by our R&D Department by using Coris Influenza A&B Respi-Strip kit (C-1012) and a competitor reference kit. Dilutions of the table are made in saline buffer before being tested on strips according to the manufacturers' product information of the two near-patient assays. Only the result of the last dilution giving a positive signal is summarized in the table.

<b>R&amp;D Analysis of Coris Bioconcept on the isolated influenza strains</b>				
<b>Sample n°</b>				
dilution at 1/3	type	subtype	Coris kit	competitor ICT
7	InfA	H3N2	++	+
dilution at 1/81	type	subtype	Coris kit	competitor ICT
9	InfA	H1N1	+	+
12	InfA	H1N1	+	-
17	InfA	H1N1	+	-
20	InfA	H1N1	+	-
22	InfA	H1N1	+	-
25	InfA	H1N1	+	-
dilution at 1/243	type	subtype	Coris kit	competitor ICT
10	InfA	H1N1	+	+
11	InfA	H1N1	+	++
13	InfA	H1N1	+	+
14	InfA	H1N1	+	+
15	InfA	H1N1	+	+
16	InfA	H1N1	+	+
18	InfA	H1N1	+	++
19	InfA	H1N1	+	+
21	InfA	H1N1	+	+
23	InfA	H1N1	+	+
24	InfA	H1N1	+	+

### CONCLUSIONS:

All strains used for the present evaluation were detected as positive for influenza A/H1N1 with the Coris Influenza A&B Respi-Strip kit, which corresponds to the seasonal predominance of influenza A/H1N1 during the last season period. As shown in Table, the detectability of strains was better with the Coris Influenza A&B Respi-Strip kit than with the other kit. Furthermore, in the present study, we have demonstrated unambiguously for five isolates of virus that the effectiveness of Coris kit for the diagnosis of influenza A/H1N1 virus infection increased significantly in comparison with the competitor reference kit (see results obtained at 1/81 dilution of sample). We must underline that the Coris kit detects specifically the nucleoprotein of all subtypes of influenza virus (see on Coris BioConcept website) but we have not yet information on the recognition by our kit of the H1N1 strain emerging in this current epidemic.