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- bly, wherein said first immunoassay reagent binds to a hemagglutinin molecule to form a first immune complex on said influenza viral particle, and wherein said second immunoassay reagent binds to a neuraminidase molecule to form a second immune complex on said influenza viral particle, said immune complexes yield one or more detectable signals indicative of the simultaneous presence of hemagglutinin and neuraminidase on said influenza viral particle, wherein either the first or second immunoassay reagent is immobilized on a solid support, and wherein said simultaneous presence of hemagglutinin and neuraminidase is indicative of the presence of said influenza viral particle;
- b) a reader assembly comprising a detection assembly for detecting said one or more detectable signals; and
- c) a communication assembly for transmitting said detected signal to an external device, and wherein said external device is configured to transmit a protocol in response to said identifier on said cartridge, and wherein said protocol in turn effects a reaction in said immunoassay assembly to generate said detectable signal.
2. The system of claim 1, wherein detection of said hemagglutinin and neuraminidase is indicative of an influenza type A viral infection.
3. The system of claim 1, wherein detection of said hemagglutinin and neuraminidase is indicative of an influenza type B viral infection.
4. The system of claim 1, wherein said hemagglutinin is selected from the group consisting of H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, and H16, and said neuraminidase is selected from the group consisting of N1, N2, N3, N4, and N5.

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5. The system of claim 1, wherein said hemagglutinin is H5 and said neuraminidase is N1.
6. The system of claim 1, wherein said subject is a human.
7. The system of claim 1, wherein said subject is an animal.
8. The system of claim 7, wherein said animal is poultry.
9. A fluidic device comprising:  
a cartridge comprising a plurality of immunoassay reactants, at least two of which bind different analytes present on an influenza viral particle in a bodily fluid from a subject, wherein at least one member of said different analytes is a hemagglutinin selected from H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, and H16, and at least one other member of said different analytes is a neuraminidase selected from N1, N2, N3, N4 and N5, and wherein said cartridge is adapted to allow said bodily fluid to react with said plurality of reactants to yield one or more detectable signals that are indicative of the presence of hemagglutinin and neuraminidase simultaneously present on an influenza viral particle in said bodily fluid.
10. The fluidic device of claim 9, where said cartridge further comprises a sample collection unit and an assay assembly that comprises said reactants.
11. The fluidic device of claim 10, where said assay assembly comprises an immunoassay assembly.
12. The fluidic device of claim 9, wherein said cartridge comprises an identifier, wherein said identifier is configured to be read by an identifier detector that reads said identifier and communicates to a communication assembly that transmits information of said identifier to an external device, and wherein said external device is configured to transmit an identifier specific protocol to said fluidic device.

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