

What is claimed is:

1. A fully automated microfluidic system for detecting multiple different analytes in a single run comprising:
 - a remote computer system;
 - a microfluidic analyzer connected with the remote computer system having a illumination source and a detection module; and
 - a cartridge having a plurality of lightbulbs, a sample tank and at least one reagent tank, wherein each lightbulb is sealable by the microfluidic analyzer.
2. The fully automated microfluidic system of claim 1, wherein the detection module comprises a camera.
3. The fully automated microfluidic system of claim 1, wherein the cartridge comprises spaces to hold up to 40 respiratory pathogens.
4. The fully automated microfluidic system of claim 3, wherein the remote computer system completes the analysis in about one hour.
5. A fully automated microfluidic system for detecting 40 different analytes in a single run in about approximately an hour comprising:
 - a remote computer system;
 - a microfluidic analyzer connected with the remote computer system having a illumination source and a detection module; and
 - a cartridge having a plurality of lightbulbs, a sample tank and at least one reagent tank.
6. The fully automated microfluidic system of claim 5, wherein the detection module comprises a camera.
7. The fully automated microfluidic system of claim 5, wherein the cartridge comprises spaces to hold up to 40 respiratory pathogens.

8. The fully automated microfluidic system of claim 7, wherein the remote computer system completes the analysis in about one hour.
9. A substantially automated microfluidic system for detecting multiple analytes with different biological contents comprising:
 - a remote computer system;
 - a microfluidic analyzer connected with the remote computer system having a illumination source and a detection module;
 - a cartridge having a plurality of lightbulbs, a sample tank and at least one reagent tank, wherein each lightbulb is sealable by the microfluidic analyzer; and
 - wherein the remote computer system analyzes the multiple analytes associated with the cartridge while all of the analytes are being processed.
10. The fully automated microfluidic system of claim 9, wherein the detection module comprises a camera.
11. The fully automated microfluidic system of claim 9, wherein the cartridge comprises spaces to hold up to 40 respiratory pathogens.
12. The fully automated microfluidic system of claim 9, wherein the remote computer system completes the analysis in about one hour.
13. A method for analyzing the multiple analytes according to claim 9.