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## Multiplex technology for screening for respiratory viruses

It is possible to detect multiple infectious agents in one assay using only one throat swab. This not only saves time and money but will provide you with many results at once. Multiplex technology allows a large number of tests to be conducted simultaneously and analyzed quickly, cost-effectively and accurately. This means multiple targets can be detected in a single sample. The bioassays are run with color-coded beads, known as microspheres. These are labeled with antibodies, antigens or oligonucleotides, which are then read in an analyzer. The system combines advanced fluidics, optics and digital signal processing to provide this multiplex assay platform.

The **respiratory virus panel** screens for several viruses and subtypes in one assay based on viral DNA/RNA isolated from nasopharyngeal swabs from individuals suspected of respiratory tract infections. Only one throat swab is required to test for the following:

### The viruses covered by the test are:

Influenza virus (A and B)  
Respiratory Syncytial Virus (RSV)  
Human Metapneumovirus (hMPV)  
Adenovirus  
Corona virus (NL63, 229, OC43, HKU1)  
Parainfluenza virus (1, 2, 3, and 4)  
Rhinovirus

Indication: suspicion of respiratory tract infections  
Material: dry throat swab (without media)  
Turnaround time: Germany, 7-10 d  
Method: Multiplex technology  
Reference range: negative