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Multiplex Technology to Screen for Encephalitis Pathogens in CSF

It is possible to detect multiple infectious agents in one assay using only one CSF sample. 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 **CSF encephalitis panel** includes the multiplex and PCR analyses for bacteria and viruses. Only 2 ml of CSF is required to test for the following:

Bacteria and bacteria-like pathogens:

Chlamydia pneumonia
Coxiella burnetii (Q-fever)
Mycoplasma pneumoniae

Viruses:

Adenovirus
Cytomegalovirus (CMV)
Herpes Simplex Virus 1 (HSV1)
Herpes Simplex Virus 2 (HSV2)
Influenza Virus A
Influenza Virus B
Measles Virus
Mumps Virus

Indication:	suspicion of encephalitis
Material:	2 ml CSF
Turnaround time:	Germany, 7-10 d
Method:	Multiplex and PCR technology
Reference range:	negative