

### Meningitis/Encephalitis (M/E) Panel by NAAT

Effective Date: August 1, 2017

Beaumont Laboratory now offers a state-of-the-art, multiplex nucleic acid amplification test (NAAT) to rapidly detect the most common pathogens associated with meningitis/encephalitis from a cerebrospinal fluid sample.

Bacteria <sup>1</sup>	Viruses <sup>2</sup>	Yeast
<i>Escherichia coli</i> K1	Cytomegalovirus	<i>Cryptococcus neoformans/gatti</i>
<i>Haemophilus influenza</i>	Human Herpes Virus 6	
<i>Listeria monocytogenes</i>	Human Parechovirus	
<i>Neisseria meningitidis</i>	Varicella Zoster Virus	
<i>Streptococcus agalactiae</i>	Enterovirus	
<i>Streptococcus pneumoniae</i>	Herpes Simplex Virus 1 & 2	

<sup>1</sup>Non-K1 *E. coli* serotypes and non-encapsulated strains of *Neisseria meningitidis* can NOT be detected by this test.

<sup>2</sup>This test can NOT distinguish between active and latent CMV and HHV-6 infections.

#### Testing Summary:

**Test Name:** Meningitis/Encephalitis Panel by NAAT

**Test Codes:** EPIC: LAB7060 SOFT: MEPNG

**Results:** Available ≤ 2 hours of CSF specimen receipt in the laboratory at Royal Oak.

**Notes:** Testing will:

- not be repeated on a patient within 30 days of initial result.
- only be performed if the CSF WBC count is greater than 10 mil/L.
- only be performed on the CSF collection tube (#2) designated for Microbiology.

#### Additional Information:

- This test is intended to be used as a diagnostic aid in conjunction with other clinical, epidemiologic and laboratory data.
- This test will NOT replace standard-of-care culture and drug susceptibility testing.
- This test will NOT replace the Cryptococcal Antigen test.
- Individual NAATs for HSV, VZV and Enterovirus will remain available. However, this panel provides test results about 1 day faster and offers extended pathogen coverage.
- The bacterial antigen test (EPIC: LAB5462, SOFT: AGBAC) will be discontinued.
- This test should NOT be ordered on patients with an indwelling CNS medical devices.

#### Specimen Collection Notes:

To minimize false positive test results, medical staff must wear a surgical mask and sterile gloves to avoid the inadvertent transfer of microorganisms from their bodies into the collection tubes during the lumbar puncture procedure. Additionally, similar precautions should be extended to family members present during the procedure.

If you have questions, please contact Client Services (1-800-551-0488, option 5).

Laboratory Test Directory: <http://beaumontlaboratory.com/test-lab-directory>.

**Date submitted:**

July 18, 2017

**Submitted by:**

Bobby Boyanton, MD, Medical Director, Microbiology, Associate Medical Director, Molecular Pathology

Barbara Robinson-Dunn, PhD, D(ABMM), Technical Director, Microbiology

*Beaumont Laboratory*

*Customer Service*

1-800-551-0488