

Supplemental Information

DESCRIPTIONS OF LABORATORY PANELS

BioFire FilmArray Meningitis/Encephalitis Assay PCR (CSF)

Escherichia coli K1, *Haemophilus influenzae*, *Listeria monocytogenes*, *Neisseria meningitidis*, *Streptococcus agalactiae*, *Streptococcus pneumoniae*, Cytomegalovirus, Enterovirus, Herpes Simplex Virus 1, Herpes Simplex Virus 2, Human Herpesvirus 6, Human Parechovirus, Varicella Zoster Virus, *Cryptococcus neoformans/gatti*

Gastrointestinal Pathogen Panel (Stool)

Campylobacter species, *Cryptosporidium* species, Enterotoxigenic *Escherichia coli* LT/ST, *Giardia* species, Norovirus GI/GII, Rotavirus A, *Salmonella* species, Shiga-like toxin producing *E. coli*, *Plesiomonas shigelloides*, *Vibrio* species (including *V. cholerae*), *Yersinia enterocolitica*, Enterotoxigenic *E. coli*, *Cyclospora cayentanensis*, *Entamoeba histolytica*,

Adenovirus F 40/41, Astrovirus, Sapovirus (Gen. I, II, IV, V), Enteropathogenic *E. coli*, *Shigella*/Enteroinvasive *E. coli*

Respiratory Viral Panel (Nasal)

Luminex Verigene multiplex RT-PCR/Microarray

Respiratory Syncytial Viruses A & B, Adenovirus, Human Metapneumovirus, Influenza A, Influenza A H1, Influenza A H3, Influenza B, Parainfluenza 1, Parainfluenza 2, Parainfluenza 3, Parainfluenza 4, Rhinovirus

Arbovirus Antibody Panel (Serum)

IgM & IgG - California (LaCrosse) Encephalitis, Eastern Equine Encephalitis, St. Louis Encephalitis, Western Equine Encephalitis

Autoimmune Encephalopathy Panel (CSF)

2-amino-3-[5-methyl-3-oxo-1,2-oxazol-4-yl] propanoic acid (AMPA)

Receptor antibody cell-based assay (CBA), Amphiphysin antibody titer, Anti-Glial Nuclear Antibody Type 1 titer, Anti-Neuronal Nuclear Antibody (ANNA) Type 1 titer, ANNA Type 2 titer, ANNA Type 3 titer, Contactin-Associated Protein 2 (CASPR2) IgG CBA, Collapsin Response-Mediator Protein (CRMP) 5 IgG titer, Dipeptidyl-Peptidase-like protein 6 (DPPX) Antibody Immunofluorescence (IFA), γ -Aminobutyric Acid B (GABA-B) Receptor Antibody, Glutamic Acid Decarboxylase 65 (GAD65) Antibody, Glial Fibrillary Acidic Protein (GFAP) IFA, IgLON Family Member 5 IFA, Leucine-Rich Glioma Inactivated Protein 1 (LGI1) IgG CBA, Metabotropic Glutamate Receptor 1 (mGluR1) Antibody IFA, Neuronal Intermediate Filament (NIF) IFA, N-methyl-D-aspartate-receptor (NMDA-R) Antibody CBA, Purkinje Cell Cytoplasmic Antibody (PCA) Type Tr titer, PCA Type 1 titer, PCA Type 2 titer