



# ROADRUNNER LABORATORY

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Orders can be emailed to:

frontdesk@roadrunnerlabservice.com or faxed to 205-728-2618

## 1 PATIENT INFORMATION

Last Name / First Name / M.I.

Address / APT# City / State / Zip

Phone #  Male  Female

DOB Insurance

## 3 MEDICAL NECESSITY

As part of my antibiotic stewardship policy, I find it medically necessary to rapidly determine and differentiate a viral and/or bacterial infection in order to treat with or without appropriate antibiotics. Having the most accurate and timely data available to me directly guides my treatment and patient management. Empiric treatment and management leads to inappropriate and unnecessary antibiotic use (50% according to the CDC) and delayed diagnosis which can lead to severe consequences.

Standard antibody/antigen detection is only available to detect few pathogens and comes with a high false negative rate, relatively lower sensitivity (60-70%) and specificity (80-90%). In addition, standard antibody/antigen detection requires the infection to be present for days allowing the body to make ample antibodies in order to detect.

Qualitative Nucleic Acid Amplification Testing (NAAT) is far superior with sensitivities and specificities > 98% and available to detect many pathogens. In addition, NAAT has built in controls to determine if an adequate patient sample was collected and processed, therefore greatly reducing false negative results. NAAT also includes controls to easily determine a contaminated sample, therefore reducing false positive results.

Physician Signature: \_\_\_\_\_

## 2 PROVIDER INFORMATION

Client Name / Account # Phone #

Ordering Physician Date of Service

Collection Date Time  AM  PM

Specimen Collected By

## 4 CONSENT FOR TESTING

The information I have provided on this form is accurate. I authorize Roadrunner Laboratory to release the results of this test to my treating physician or facility. I hereby authorize my insurance or other payment to Roadrunner Laboratory for services I receive. I am aware that Roadrunner Laboratory may be an out of network provider with my insurer. I am aware that I am responsible for all co-pays and deductibles not covered by insurance or other payers.

Patient Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# RestoreU pinpoints areas of concern from a patient's health history and the results of our cognitive lab panel

### BASE PANEL

- Complete blood count (CBC)
- Comprehensive metabolic panel (CMP)
- Thyroid-stimulating hormone (TSH)
- Vitamin B9
- Vitamin B12

TSH is important for synaptic balance and cognitive optimization.

People with Alzheimer's disease often have low **vitamin B9** (folate)

Low **vitamin B12** is linked to myelin degradation, brain cell atrophy, inflammation, and high homocysteine levels.

### LIPIDS

- High-density lipoprotein (HDL)
- Low-density lipoprotein (LDL)
- Total cholesterol
- Triglycerides

High **HDL** is associated with lowered risk of Alzheimer's disease.

### HORMONES

- Dehydroepiandrosterone-sulfate (DHEA-S)
- Cortisol
- Estrogen
- Free T3 (ft3)
- Free thyroxine (ft4)
- Pregnenolone
- Progesterone
- Reverse T3 (rT3)
- Testosterone

Low **DHEA-S** is associated with the onset of Alzheimer's disease.

Low **Pregnenolone** is associated with memory impairment.

**Progesterone** has been shown to be neuroprotective.

### OTHER

- Blood urea nitrogen (BUN)
- Creatinine
- Gamma-glutamyl transpeptidase (GGT)
- Hemoglobin A1c
- Homocysteine
- High-sensitivity C-reactive protein (hs-CRP)
- Lactate dehydrogenase (LDH)
- Phosphorus
- Total Bilirubin
- Uric acid
- Vitamin D
- Vitamin E

**BUN, Creatinine**, height, weight, and age are used to identify stages 3, 4, or 5 of chronic kidney disease, which are seen in more than 50% of people with cognitive decline.

High **homocysteine** is associated with atrophy of the hippocampus, a key brain area for memory.

Low **vitamin D** is linked to increased risk for dementia and is common in those with Alzheimer's disease.

### ESSENTIAL METALS

- Copper
- Ferritin
- Iron
- Magnesium
- Selenium
- Zinc

High **copper** is linked to Alzheimer's disease, lower cognitive abilities, and cognitive loss.

Excess **iron** generates oxidative stress in vital organs.

Elevation of brain **magnesium** helps prevent synaptic loss and can help reverse cognitive deficits in Alzheimer's disease.

RestoreU is the first AI-generated personalized cognitive care plan available nationwide