



Accession Number: **A0803260001**  
 Reference Number:  
 Patient: **Sample Report**  
 Age: 43 Sex: M  
 Date of Birth: 02/25/1965  
 Date Collected: 3/26/08  
 Date Received: 3/26/08  
 Report Date: 3/26/08  
 Telephone: 7704465483  
 Fax: 7704412237  
 Reprinted: 3/28/08  
 Comment:

Ordering Physician:

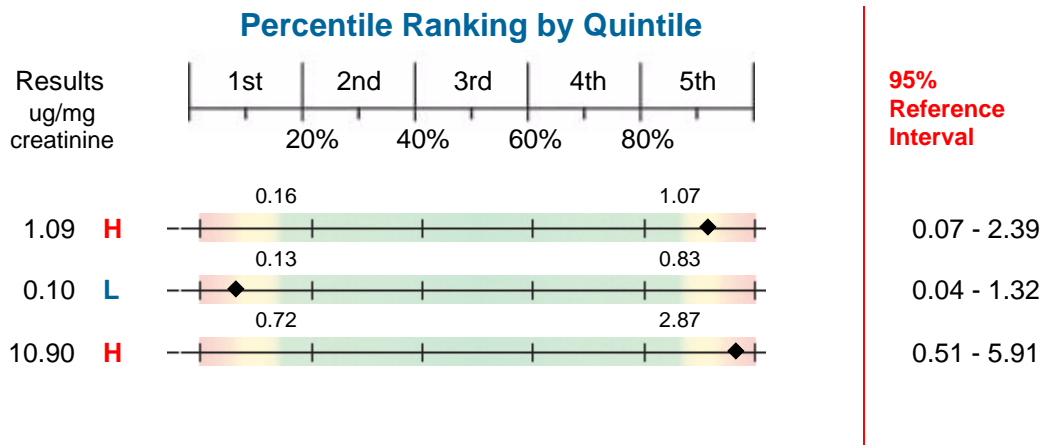
271825 - 297916

Metamatrix Staff & Family

3425 Corporate Way  
Duluth, GA 30096

**0088 Neopterin, Biopterin Profile**

Methodology: LC/Tandem Mass Spectroscopy, Colorimetric



Creatinine = 210 ng/dL

\*Result less than detection limits

\*\*Unable to calculate due to indeterminant value

Interpretation:

Neopterin is a marker of inflammatory challenge such as that precipitated by interferon gamma in response to viral infection or intestinal bacterial overgrowth. Urinary neopterin elevation has been proposed as a surrogate marker for inflammatory diseases such as juvenile idiopathic inflammatory myopathies. Neopterin and biopterin tend to respond similarly except in conditions such as autism where biopterin tends to rise while neopterin falls in CSF. Such scenarios are most sensitively detected by an abnormal neopterin/biopterin ratio. These markers allow assessment of successful strategies to reduce chronic inflammation.

Values in the first decile are reported as 'L' because they may have significance regarding a patient's ability to produce adequate tetrahydrobiopterin (BH4). BH4 is required for the Phe to Tyr conversion and for formation of nitric oxide and serotonin. The method being used for this assay allows accurate low range determinations that were not possible by earlier methods for neopterin. Patients with insufficient tetrahydrobiopterin synthesis may benefit by supplemental BH4 and folate.

These test results are not for the diagnosis of disease. They are intended to provide nutritional guidelines to qualified healthcare professionals with full knowledge of patient history and concerns to assist in their design of an appropriate healthcare program.