RDL Reference Laboratory
Creative Solutions for Complex Medicine

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Anti-Synthetase Syndrome

The aminoacyl-transfer RNA synthetases (ARS) are a family of cytoplasmic enzymes. Anti-ARS autoantibodies include Anti-Jo, Anti-PL-12, Anti-PL-7, Anti-EJ and Anti-OJ.

Anti-Synthetase Syndrome features include interstitial lung disease (ILD), myositis, non-erosive arthritis, Raynaud's phenomenon and mechanic's hands. These autoantibodies are associated with myositis with high frequency of ILD (65%) and non-erosive arthritis (20-45%), as well as an increase in Raynaud's phenomenon (30%) and mechanic's hands (16%).

Most patients with anti-ARS have chronic and mild ILD, but some patients presenting with acute ILD suffer a severe, rapidly progressive course.

RDL offers a panel to assist the clinician in diagnosing Anti-Synthetase Syndrome.

Anti-Synthetase Antibodies Panel

Jo-1
PL-7
PL-12
EJ
OJ

Methodology: Immunoprecipitation (IPP)
Specimen Requirement: 2 mL serum (or EDTA plasma can be used)
Specimen Stability: Ambient 5 days; Refrigerated 2 weeks; Frozen 6 months

Test #: 1292

Turnaround Time: 10 - 14 Days