

Client: Example Client ABC123 123 Test Drive Salt Lake City, UT 84108 UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB 2/9/1998 Gender: Female

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD **Collection Date:** 00/00/0000 00:00

Connective Tissue Diseases Profile

ARUP test code 0051668

Smith (ENA) Antibody, IgG

149 AU/mL H (Ref Interval: 0-40)

INTERPRETIVE INFORMATION: Smith (ENA) Antibody, IgG

29 AU/mL or Less Negative 30 - 40 AU/mL Equivocal 41 AU/mL or Greater Positive

Smith antibody is highly specific (greater than 90 percent) for systemic lupus erythematosus (SLE) but only occurs in 30-35 percent of SLE cases. The presence of antibodies to Smith has variable associations with SLE clinical manifestations.

Centromere Ab, IgG

2 AU/mL

(Ref Interval: 0-40)

INTERPRETIVE INFORMATION: Centromere Ab, IgG

29 AU/mL or Less Negative 30 - 40 AU/mL Equivocal 41 AU/mL or Greater Positive

When detected by this multiplex bead assay, the presence of centromere antibodies is mainly associated with CREST syndrome, a variant of systemic sclerosis (SSc). These antibodies target the centromere B, a dominant antigen of the centromeric complex associated with the centromere pattern observed in antinuclear antibody (ANA) testing by IFA. Centromere antibodies may also be seen in a varying percentage of patients with other autoimmune diseases, including diffuse cutaneous SSC, Raynaud syndrome, interstitial pulmonary fibrosis, autoimmune liver disease, systemic lupus erythematosus (SLE) and rheumatoid arthritis (RA).

A negative result indicates no detectable IgG antibodies to centromere B. If the result is negative but clinical suspicion for SSc is strong, consider testing for ANA by IFA along with other antibodies associated with SSc, including Scl-70, U3-RNP, PM/Scl, or Th/To.

Ribosome P Antibody, IgG

0 AU/mL

(Ref Interval: 0-40)



	INTERPRETIVE INFORMATION: Ribosomal P Protein Ab, IgG			
	29 AU/mL or Less Negative 30 - 40 AU/mL			
SSA-52 (Ro52) (ENA) Antibody, IgG	3 AU/mL	(Ref Interval: 0-40)		
	INTERPRETIVE INFORMATION	N: SSA-52 (Ro52) (ENA) Antibody, IgG		
	29 AU/mL or Less Negative 30 - 40 AU/mL Equivocal 41 AU/mL or Greater Positive			
	SSA-52 (Ro52) and/or SSA-60 (Ro60) antibodies are associated with a diagnosis of Sjogren syndrome, systemic lupus erythematosus (SLE), and systemic sclerosis. SSA-52 antibody overlaps significantly with the major SSC-related antibodies. SSA-52 (Ro52) antibody occurs frequently in patients with inflammatory myopathies, often in the presence of interstitial lung disease.			
SSA-60 (Ro60) (ENA) Antibody, IgG	3 AU/mL	(Ref Interval: 0-40)		
	REFERENCE INTERVAL: SSA-60 (Ro60) (ENA) Antibody, IgG			
	29 AU/mL or Less Negative 30 - 40 AU/mL Equivocal 41 AU/mL or Greater Positive			
Smith/RNP (ENA) Ab, IgG	143 Units н	(Ref Interval: 0-19)		
	INTERPRETIVE INFORMATION	N: Smith/RNP (ENA) Antibody, IgG		
	40 to 80 Units			
	connective tissue diseas other systemic autoimmur systemic lupus erythemat myositis. Antibodies tar also recognize Smith ant	e frequently seen in patients with mixed se (MCTD) and are also associated with ne rheumatic diseases (SARDs) such as tosus (SLE), systemic sclerosis, and regeting the Smith/RNP antigenic complex tigens, therefore, the Smith antibody ared when interpreting these results.		
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INTERPRETIVE INFORMATION: Jo-1 Antibody, IgG

29 AU/mL or less.....Negative 30-40 AU/mL.....Equivocal 41 AU/mL or greater....Positive

Presence of Jo-1 (antihistidyl transfer RNA [t-RNA] synthetase) antibody is associated with polymyositis and may also be seen in patients with dermatomyositis. Jo-1 antibody is associated with pulmonary involvement (interstitial lung disease), Raynaud phenomenon, arthritis, and mechanic's hands (implicated in antisynthetase syndrome).

SSB (La) (ENA) Antibody, IgG

4 AU/mL (Ref Interval: 0-40)

INTERPRETIVE INFORMATION: SSB (La) (ENA) Ab, IgG

29 AU/mL or Less Negative 30 - 40 AU/mL Equivocal 41 AU/mL or Greater Positive

SSB (La) antibody is seen in 50-60% of Sjogren syndrome cases and is specific if it is the only ENA antibody present. 15-25% of patients with systemic lupus erythematosus (SLE) and 5-10% of patients with progressive systemic sclerosis (PSS) also have this antibody.

Scleroderma (Scl-70) (ENA) Antibody, IgG

2 AU/mL (Ref Interval: 0-40)

INTERPRETIVE INFORMATION: Scleroderma (Scl-70) (ENA) Ab, IgG

29 AU/mL or Less Negative 30 - 40 AU/mL Equivocal 41 AU/mL or Greater Positive

The presence of Scl-70 antibodies (also referred to as topoisomerase I, topo-I or ATA) is considered diagnostic for systemic sclerosis (SSc). Scl-70 antibodies alone are detected in about 20 percent of SSc patients and are associated with the diffuse form of the disease, which may include specific organ involvement and poor prognosis. Scl-70 antibodies have also been reported in a varying percentage of patients with systemic lupus erythematosus (SLE). Scl-70 (topo-1) is a DNA binding protein and anti-DNA/DNA complexes in the sera of SLE patients may bind to topo-I, leading to a false-positive result. The presence of Scl-70 antibody in sera may also be due to contamination of recombinant Scl-70 with DNA derived from cellular material used in immunoassays. Strong clinical correlation is recommended if both Scl-70 and dsDNA antibodies are detected.

Negative results do not necessarily rule out the presence of SSc. If clinical suspicion remains, consider further testing for centromere, RNA polymerase III and U3-RNP, PM/Scl, or Th/To antibodies.



VERIFIED/REPORTED DATES					
Procedure	Accession	Collected	Received	Verified/Reported	
Smith (ENA) Antibody, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Centromere Ab, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Ribosome P Antibody, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
SSA-52 (Ro52) (ENA) Antibody, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
SSA-60 (Ro60) (ENA) Antibody, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Smith/RNP (ENA) Ab, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Jo-1 (Histidyl-tRNA Synthetase) Ab, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
SSB (La) (ENA) Antibody, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Scleroderma (Scl-70) (ENA) Antibody, IgG	23-271-140225	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	

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