

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** Unknown  
**Gender:** Unknown  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Polymyositis Panel**

ARUP test code 3018868

Jo-1 (Histidyl-tRNA Synthetase) Ab, IgG	<b>60 AU/mL</b>	<b>H</b>	<b>(Ref Interval: 0-40)</b>
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).			
PL-12 (alanyl-tRNA synthetase) Antibody	<b>Positive</b>	<b>*</b>	<b>(Ref Interval: Negative)</b>
PL-7 (threonyl-tRNA synthetase) Antibody	<b>Weak Positive</b>	<b>*</b>	<b>(Ref Interval: Negative)</b>
EJ (glycyl-tRNA synthetase) Antibody	<b>Positive</b>	<b>*</b>	<b>(Ref Interval: Negative)</b>
OJ (isoleucyl-tRNA synthetase) Antibody	<b>Positive</b>	<b>*</b>	<b>(Ref Interval: Negative)</b>
SRP (Signal Recognition Particle) Ab	<b>Positive</b>	<b>*</b>	<b>(Ref Interval: Negative)</b>
Polymyositis Interpretive Information	See Note		

**H=High, L=Low, \*=Abnormal, C=Critical**

Unless otherwise indicated, testing performed at:

INTERPRETIVE INFORMATION: Polymyositis Panel 2

If present, myositis-specific antibodies (MSAs) are specific for myositis, and may be useful in establishing diagnosis as well as prognosis. MSAs are generally regarded as mutually exclusive with rare exceptions; the occurrence of two or more MSAs should be carefully evaluated in the context of patient's clinical presentation. Myositis-associated antibodies (MAAs) may be found in patients with CTD including overlap syndromes, and are generally not specific for myositis. The following table will help in identifying the association of any antibodies found as either MSAs or MAAs.

Antibody Specificity . . . . .	MSAs . . . .	MAAs
Jo-1 (histidyl-tRNA synthetase) Ab, IgG . . . . .	X	
PL-12 (alanine-tRNA synthetase) Antibody . . . . .	X	
PL-7 (threonyl-tRNA synthetase) Antibody . . . . .	X	
EJ (glycyl-tRNA synthetase) Antibody . . . . .	X	
OJ (isoleucyl-tRNA synthetase) Antibody . . . . .	X	
SRP (Signal Recognition Particle) Ab . . . . .	X	
Ha (tyrosyl-tRNA synthetase) Ab . . . . .	X	
Ks (asparaginyl-tRNA synthetase) Ab . . . . .	X	
Zo (phenylalanyl-tRNA synthetase) Ab . . . . .	X	

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Antinuclear Antibody (ANA), HEp-2, IgG

**Detected** \* (Ref Interval: <1:80)

ANA Interpretive Comment

See Note

**Speckled Pattern**  
Clinical associations: SLE, SSC, Sjs, DM, PM, MCTD, UCTD. May also be found in healthy individuals  
Main autoantibodies: Anti-SSA-52 (Ro52), anti-SSA-60 (Ro60), anti-SS-B/LA, anti-Topo-1 (anti-Scl-70), Smith, anti-U1-RNP, anti-U2-RNP, anti-Mi-2, anti-p155/140 (TIF1g), anti-Ku, anti-RNA polymerase, anti-DFS70/LEDGF-P75

**Centromere Pattern**  
Clinical associations: SSC, PBC  
Main autoantibodies: Anti-centromere A/B(c)

**Polar/Golgi-like pattern**  
Clinical Associations: Variety of conditions, including Sjs, SLE, RA, MCTD, GPA, idiopathic cerebellar ataxia, paraneoplastic cerebellar degeneration, adult Still disease, and viral infections, including HIV and EBV.  
Main autoantibodies: no available tests

**List of Abbreviations**  
Antisynthetase syndrome (ARS), chronic active hepatitis (CAH), inflammatory myopathies (IM) [dermatomyositis (DM), polymyositis (PM), necrotizing autoimmune myopathy (NAM)], interstitial lung disease (ILD), juvenile idiopathic arthritis (JIA), mixed connective tissue disease (MCTD), primary biliary cholangitis (PBC), rheumatoid arthritis (RA), systemic autoimmune rheumatic diseases (SARD), Sjogren syndrome (Sjs), systemic lupus erythematosus (SLE), systemic sclerosis (SSc), undifferentiated connective tissue disease (UCTD).

H=High, L=Low, \*=Abnormal, C=Critical

INTERPRETIVE INFORMATION: ANA Interpretive Comment

Presence of antinuclear antibodies (ANA) is a hallmark feature of systemic autoimmune rheumatic diseases (SARD). However, ANA lacks diagnostic specificity and is associated with a variety of diseases (cancers, autoimmune, infectious, and inflammatory conditions) and may also occur in healthy individuals in varying prevalence. The lack of diagnostic specificity requires confirmation of positive ANA by more specific serologic tests. ANA (nuclear reactivity) positive patterns reported include centromere, homogeneous, nuclear dots, nucleolar, or speckled. ANA (cytoplasmic reactivity) positive patterns reported include reticular/AMA, discrete/GW body-like, polar/golgi-like, cytoplasmic speckled or rods and rings. All positive patterns are reported to endpoint titers (1:2560). Reported patterns may help guide differential diagnosis, although they may not be specific for individual antibodies or diseases. Mitotic staining patterns not reported. Negative results do not necessarily rule out SARD.

Ha (tyrosyl-tRNA synthetase) Ab

**Positive** \* (Ref Interval: **Negative**)

Ha positive by line immunoassay. Band corresponding to 65 kDa observed by immunoprecipitation. Profile consistent with Ha antibody positivity.

Ks (asparaginyl-tRNA synthetase) Ab

**Borderline** \* (Ref Interval: **Negative**)

Ks low positive by line immunoassay. Weak band corresponding to 65 kDa observed by immunoprecipitation. Strong clinical correlation is recommended.

Zo (phenylalanyl-tRNA synthetase) Ab

**Positive** \* (Ref Interval: **Negative**)

Zo positive by line immunoassay. Bands corresponding to 68 and 58 kDa observed by immunoprecipitation. Profile consistent with Zo antibody positivity.

**Antinuclear Antibody (ANA) with HEp-2 Substrate, IgG by IFA, Dual Pattern (Reflex for 3000082 ANA IFA AB Only Not Orderable by Clients)**

ARUP test code 3000084

ANA Pattern

**Speckled** \*

ANA Titer

**1:1280** \*

ANA Pattern 2

**Centromere** \*

ANA Titer 2

**1:640** \*

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

**Antinuclear Antibody (ANA) with HEp-2 Substrate, IgG by IFA, Cytoplasmic Pattern (Reflex for 3000082 ANA IFA AB Only Not Orderable by Clients)**

ARUP test code 3000478

Cytoplasmic Titer **1:640** \*

Cytoplasm Pattern **golgi-like** \*

VERIFIED/REPORTED DATES				
Procedure	Accession	Collected	Received	Verified/Reported
Jo-1 (Histidyl-tRNA Synthetase) Ab, IgG	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
PL-12 (alanyl-tRNA synthetase) Antibody	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
PL-7 (threonyl-tRNA synthetase) Antibody	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EJ (glycyl-tRNA synthetase) Antibody	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
OJ (isoleucyl-tRNA synthetase) Antibody	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
SRP (Signal Recognition Particle) Ab	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Polymyositis Interpretive Information	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Antinuclear Antibody (ANA), HEp-2, IgG	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Pattern	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Titer	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Pattern 2	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Titer 2	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cytoplasmic Titer	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Interpretive Comment	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cytoplasm Pattern	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ha (tyrosyl-tRNA synthetase) Ab	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ks (asparaginyl-tRNA synthetase) Ab	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Zo (phenylalanyl-tRNA synthetase) Ab	25-022-111368	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 25-022-111368  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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