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

Dermatomyositis and Polymyositis Panel

ARUP test code 3018866

Jo-1 (Histidyl-tRNA Synthetase) Ab, IgG	55 AU/mL	H	(Ref Interval: 0-40)

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	Positive	*	(Ref Interval: Negative)
PL-7 (threonyl-tRNA synthetase) Antibody	Positive	*	(Ref Interval: Negative)
EJ (glycyl-tRNA synthetase) Antibody	Positive	*	(Ref Interval: Negative)
OJ (isoleucyl-tRNA synthetase) Antibody	Positive	*	(Ref Interval: Negative)
SRP (Signal Recognition Particle) Ab	Positive	*	(Ref Interval: Negative)
Mi-2 (nuclear helicase protein) Antibody	Positive	*	(Ref Interval: Negative)
P155/140 Antibody	Positive	*	(Ref Interval: Negative)
TIF-1 gamma (155 kDa) Ab	Low Positive	*	(Ref Interval: Negative)

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

	Low positive reactivity to transcriptional intermediary factor (TIF1y) detected. Strong clinical correlation is recommended.		
SAE1 (SUMO activating enzyme) Ab	**Positive**	*	**(Ref Interval: Negative)**
MDA5 (CADM-140) Ab	**High Positive**	*	**(Ref Interval: Negative)**
NXP2 (Nuclear matrix protein-2) Ab	**Low Positive**	*	**(Ref Interval: Negative)**
	Low positive reactivity to nuclear matrix protein (NXP2) detected. Strong clinical correlation is recommended.		
Myositis Interpretive Information	See Note		

INTERPRETIVE INFORMATION: Dermatomyositis and 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 (alanyl-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
Mi-2 (nuclear helicase protein) Antibody		X
P155/140 Antibody		X
TIF-1 gamma (155 kDA) Ab		X
SAE1 (SUMO activating enzyme) Ab		X
MDA5 (CADM-140) Ab		X
NXP2 (Nuclear matrix protein-2) 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		

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

Homogeneous Pattern
Clinical associations: SLE, drug-induced SLE or JIA.
Main autoantibodies: Anti-dsDNA, anti-histones or anti-chromatin (anti-nucleosome)

Rods and Rings pattern
Clinical Associations: commonly found in HCV patients who have been treated with pegylated interferon-alpha/ribavirin combination therapy.
Main autoantibodies: IMPDH2 (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).

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	**See Note**	*	**(Ref Interval: Negative)**

Ks positive by line immunoassay. No bands 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.

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

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

ARUP test code 3000083

ANA Pattern	Homogeneous	*
ANA Titer	1:640	*

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	Rods and Rings	*

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

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Jo-1 (Histidyl-tRNA Synthetase) Ab, IgG	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
PL-12 (alanyl-tRNA synthetase) Antibody	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
PL-7 (threonyl-tRNA synthetase) Antibody	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EJ (glycyl-tRNA synthetase) Antibody	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
OJ (isoleucyl-tRNA synthetase) Antibody	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
SRP (Signal Recognition Particle) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Mi-2 (nuclear helicase protein) Antibody	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
P155/140 Antibody	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TIF-1 gamma (155 kDa) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
SAE1 (SUMO activating enzyme) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
MDA5 (CADM-140) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
NXP2 (Nuclear matrix protein-2) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Myositis Interpretive Information	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Antinuclear Antibody (ANA), HEp-2, IgG	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Pattern	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Titer	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cytoplasmic Titer	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
ANA Interpretive Comment	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Cytoplasm Pattern	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ha (tyrosyl-tRNA synthetase) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Ks (asparaginyl-tRNA synthetase) Ab	25-022-111367	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Zo (phenylalanyl-tRNA synthetase) Ab	25-022-111367	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