MDA5 and ASYS

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BLUF: lineblot is highly prone to FP and FN results. IP is best overall, but ELISA is a faster, acceptable non-IP alternative.
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Modality ranked by highest to lower *specificity*:

- IP > ELISA » multiplex bead assays » lineblot

Modality ranked by highest to lower *sensitivity*:

- ELISA >= IP » multiplex bead assays » lineblot

Reliable test options

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Use OMRF or Labcorp ELISA options. Avoid Quest
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lab	test_name	link	antibodies	test_modality	notable_feature
OMRF	Comprehensive Myositis Autoantibody Profile	https://omrf.org/patients/clinical-testing-lab/	Jo-1, PL7, PL12, EJ, OJ, SRP, Mi-2, PMScl, Ku, Ro60, U1RNP, U2RNP, p155/140 (TIF1g), MJ (NXP2), caDM140 (MDA5)	IP	gold standard but no quantification of levels like in ELISA
Mayo Clinilc	MyoMarker 3 Profile	https://www.mayocliniclabs.com/test-catalog/overview/75595	PL-7 Ab,PL-12 Ab, EJ Ab,OJ Ab,SRP Ab,Mi-2-Ab,U3 RNP (Fibrillarin),U2 RNP Ab,Ku Ab, Jo-1 Ab, TIF-1gamma Ab, MDA-5-Ab (CADM-140), NXP-2 (P140) Ab, PM/Scl-100 Ab, SS-A 52kD Ab IgG, U1-RNP Ab	RIPA, ELISA	RIPA testing of ASYS ab
Labcorp	Anti-Synthetase Profile (RDL)	https://www.labcorp.com/tests/520193/anti-synthetase-profile-rdl	Anti-EJ Ab; Anti-Jo-1 Ab; Anti-OJ Ab; Anti-PL-7 Ab, Anti-PL-12 Ab	ELISA and RIPA	RIPA has superior sensitivity for detecting anti-OJ
Labcorp	MyoMarker® 3 Plus Profile	https://www.labcorp.com/tests/520085/myomarker-3-plus-profile-rdl	Anti-PM/Sci-100 Ab; Anti-MDA5 Ab (CADM-140); Anti-NXP-2 Ab; Anti-TIF-1gamma Ab; Anti-SAE1 Ab, IgG; Anti-SRP Ab; Anti-U3 RNP (Fibrillarin Ab); Anti-U2 RNP Ab; Anti-Mi-2 Ab; Anti-PL-7 Ab; Anti-PL-12 Ab; Anti-EJ Ab; Anti-OJ Ab; Anti-Ku Ab; Anti-Jo-1 Ab; Anti-U1 RNP Ab; Anti-SS-A 52kD Ab, IgG	ELISA and RIPA	large MSA and MAA screen; includes RO52 ELISA measurement
Quest	Myositis Specific 11 Antibodies Panel	https://testdirectory.questdiagnostics.com/test/test-detail/94777/myositis-specific-11-antibodies-panel?cc=MASTER	Jo-1 Ab, Pl-7 Ab, Pl-12 Ab, EJ Ab, OJ Ab, SRP Ab, Mi-2 Alpha Ab, Mi-2 Beta Ab, MDA5 Ab, TIF1 Gamma Ab, NXP-2 Ab	**line blot**	test is line blot only; regard results not orthogonally confirmed with skepticism
Quest	Extended Myositis Specific Antibody (MSA) Panel	https://testdirectory.questdiagnostics.com/test/test-detail/10257/extended-myositis-specific-antibody-msa-panel?p=r&cc=MASTER	Myositis Specific 11 Antibodies Panel (JO1, PL7, PL12, EJ, OJ, SRP, MI-2a/b, MD5, TIF1G, NXP2) HMGCR, cN-1A	**ASYS ab are line blot**	test is line blot only for ASYS-Ab; regard results not rthogonally confirmed with skepticism
Arup	Extended Myositis Panel	https://arupconsult.com/ati/extended-myositis-panel	many	varies; qualitative IP, PMAT, lineblot, multiplex assay	**only commerical assay testing anti-Ha, anti-Ks, anti-Zo**

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