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
Labcorp	anti-synthetase profile	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, PI-7 Ab, PI-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			

3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase (HMGCR) Antibody (IgG) Cytosolic 5'-Nucleotidase 1A (cN-1A) Antibody (IgG)| **ASYS ab are line blot** | test is line blot only for ASYS-Ab; regard results not orthogonally confirmed with skepticism |

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