

Order ID 739811

Provider Exagen Provider MD

Specimen
Collected 01/19/2023
Received 01/20/2023

Test Order

Created 01/20/2023 Reported 01/25/2023 Patient Sample, Susan S.

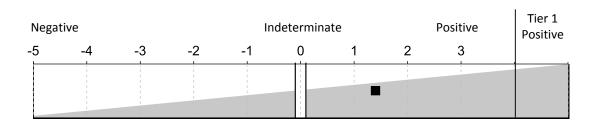
Gender - DOB Female - 01/01/1996

Identifier Received

Exagen ID 541163

AVISE Lupus Test Report

AVISE Lupus Result: Positive - Index: 1.4



Tier 1 Assessment **Tier 1 Analytes** Value Interpretation **Reference Range** Anti-dsDNA IgG 20.00 IU/mL Negative <201 - Negative | 201-<302 - Equivocal |≥302 - Positive Confirmation by Crithidia luciliae N/A Anti-Smith IgG <0.7 U/mL Negative <7 - Negative | 7-10 - Equivocal | >10 - Positive Negative CB-CAP: EC4d - Erythrocyte-bound C4d 25 Net MFI POSITIVE <15 - Negative | 15 -75 - Positive | >75 - Strong Positive CB-CAP: BC4d - B-lymphocyte-bound C4d 100 Net MFI POSITIVE <61 - Negative | 61-200 - Positive | >200 - Strong Positive Note: Criteria for Tier 1 Positive not met.

Fier 2 Analytes	Value	Interpretation	Reference Range	Tier 2 Assessment
ANA IgG	40.00 Units	POSITIVE	<20 - Negative 20-<60 - Positive ≥60 - Strong Positive	
CB-CAP: EC4d - Erythrocyte-bound C4d	25 Net MFI	POSITIVE	<15 - Negative 15-75 - Positive >75 - Strong Positive	
CB-CAP: BC4d - B-lymphocyte-bound C4d	100 Net MFI	POSITIVE	<61 - Negative 61-200 - Positive >200 - Strong Positive	
Anti-SS-B/La IgG	1.0 U/mL	Negative	<7 - Negative 7-10 - Equivocal >10 - Positive	Positive
Anti-Scl-70 IgG	1.0 U/mL	Negative	<7 - Negative 7-10 - Equivocal >10 - Positive	
Anti-Centromere Protein B (CENP) IgG	1.0 U/mL	Negative	<7 - Negative 7-10 - Equivocal >10 - Positive	
Anti-Jo-1 IgG	1.0 U/mL	Negative	<7 - Negative 7-10 - Equivocal >10 - Positive	
Anti-CCP IgG	1.0 U/mL	Negative	<7 - Negative 7-10 - Equivocal >10 - Positive	
Note:				

Approved by: Richard Safrin, MD

Richard E Safin MO

62% for SLE and specificity of 89%. Two tier combination yielded 80% sensitivity for SLE and 86% specificity for other rheumatic diseases (98% specificity vs. healthy).

Results were obtained using flow cytometry for complement C4d fragment bound to erythrocytes (EC4d) and B-lymphocytes (BC4d). Autoantibodies were determined using solid phase immunoassays. ANA was determined by indirect immunofluorescence and solid phase assays. ANA by solid phase assay was used for the index calculation. In a study of 794 subjects comprising 304 SLE patients, 285 patients with other rheumatic diseases and 205 normal healthy controls, positivity for Tier 1 markers (anti-dsDNA, confirmed using Crithidia, anti-Sm or elevated EC4d and BC4d) was associated with a sensitivity of 46% and a specificity of 97%. Among the 440 subjects negative in Tier 1, a positive index score composite of ANA (by ELISA), EC4d/BC4d and positivity for anti-citrullinated peptide antibodies, SS-B/La, CENP, Jo-1 or Scl-70 resulted in sensitivity of

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Sample,

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SLE-Associated Analytes		Value	Interpretation	Reference Range
+ ANA IgG		40.00 Units	POSITIVE	ELISA: <20 - Negative 20-<60 - Positive ≥60 - Strong Positive
+ ANA by HEp-2	Titer:	1:320	POSITIVE	IFA: <1:80 - Negative ≥1:80 - Positive
	ar Pattern: Speckled ic Pattern: Not Obse	rved		
Anti-dsDNA IgG		20.00 IU/mL	Negative	ELISA: <201 - Negative 201-<302 - Equivocal ≥302 - Positive
Confirmation by Crithidia I	uciliae	N/A		IFA: Negative
Anti-Smith IgG		<0.7 U/mL	Negative	ELFA: <7 - Negative 7-10 - Equivocal >10 - Positive
+ CB-CAP: EC4d - Erythrocyte	e-bound C4d	25 Net MF	I POSITIVE	FACS: <15 - Negative 15-75 - Positive >75 - Strong Positive
+ CB-CAP: BC4d - B-lymphoc	yte-bound C4d	100 Net MF	I POSITIVE	FACS: <61 - Negative 61-200 - Positive >200 - Strong Positiv
Other Autoimmune Disease	Auto-Antibodies	Value	Interpretation	Reference Range
Anti-SS-B/La IgG		1.0 U/mL	Negative	ELFA: <7 - Negative 7-10 - Equivocal >10 - Positive
Anti-Scl-70 IgG		1.0 U/mL	Negative	ELFA: <7 - Negative 7-10 - Equivocal >10 - Positive
Anti-Centromere Protein E	3 (CENP) IgG	1.0 U/mL	Negative	ELFA: <7 - Negative 7-10 - Equivocal >10 - Positive
Anti-Jo-1 IgG		1.0 U/mL	Negative	ELFA: <7 - Negative 7-10 - Equivocal >10 - Positive
Anti-CCP IgG		1.0 U/mL	Negative	ELFA: <7 - Negative 7-10 - Equivocal >10 - Positive
Optional Analytes Ordered		Value	Interpretation	Reference Range

No optional analytes ordered

Notes:

References

- 1. Kalunian K, et al. Measurement of cell-bound complement activation products enhances diagnostic performance in systemic lupus erythematosus. Arthritis Rheum. 2012 Dec;64(12):4040-7.
- 2. Wallace D, et al. Systemic lupus erythematosus and primary fibromyalgia can be distinguished by testing for cell-bound complement activation products. Lupus Sci Med., 2016 Feb;3(1):e000127
- 2. Wallace D, ct al. Cell-bound complement activation products in systemic lupus erythematosus: comparison with anti-double-stranded DNA and standard complement measurements. Lupus Sci Med. 2014 Oct;1(1):e000056

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