

INTRINSIC FACTOR BLOCKING ANTIBODY, SERUM #800273

EXPLANATION: Mayo Medical Laboratories is pleased to announce that our Jacksonville Laboratory will be adding Intrinsic Factor Blocking Antibody, Serum, to their test menu. The testing and reporting is equivalent to Rochester test Intrinsic Factor Blocking Antibody, Serum (Test code #9335).

USEFUL FOR: Confirming the diagnosis of pernicious anemia.

METHODOLOGY: Competitive-Binding Immunoenzymatic Assay

REFERENCE VALUES: Negative

SPECIMEN REQUIREMENTS: Draw blood in a plain, red-top tube(s) or a serum gel tube(s). Spin down and send 1 mL of serum frozen in plastic vial.

Precautions: This test should not be ordered on patients who have received a Vitamin B (12) injection within the last 2 weeks.

CAUTIONS:

- Do not order IFBA testing in patients who have received a vitamin B (12) injection within the last 2 weeks. High free serum vitamin B (12) levels, as may be seen within the first 2 weeks after a vitamin B (12) injection, can interfere in the IFBA assay, leading to false positive results.
- In spiking experiments, the minimum concentration of free B (12), which will cause a significant increment in measured IFBA values, is 444 ng/L. This corresponds approximately to a total serum vitamin B (12) level (bound and free) of ≥ 800 -1,000 ng/L in a real patient specimen. We therefore reflex all positive IFBA tests, which have not been ordered through the "Pernicious Anemia Cascade", to vitamin B (12) measurement. If this yields a level >800 ng/L, we append a comment to the report indicating a possible false-positive result.
- There is no interference from hemoglobin concentrations of up to 5 g/L, bilirubin of up to 200 mg/L, triglycerides of up to 18 g/L, or serum albumin between 50 g/L and 90 g/L. It is unknown, whether higher concentrations of these substances may cause assay interference.
- Some patients with other autoimmune diseases may have positive IFBA assays without suffering from PA. This is reported in particular in patients with autoimmune thyroid disease or type I diabetes mellitus. In the validation of this assay, 24 individuals with these autoimmune endocrine disease were tested, and all were IFBA negative. However, 5 of 15 of patients with rheumatoid arthritis were IFBA positive during the validation of this assay. The literature suggests such individuals may in fact be at risk of later development of PA.

- Since this is a competitive assay, the risk of heterophile antibody interference is low. During validation 24 HAMA specimens and 25 specimens with other heterophile antibodies were tested and all were IFBA negative. However, if the clinical picture does not agree with the IFBA test result the laboratory should be consulted for advice.

CPT CODE: 86340
LIST FEE: \$122.50

ANALYTIC TIME: 1 day
DAY(S) SET UP: Monday through Saturday

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager
Greg Renkly Mayo Medical Laboratories' Technologist Support
Telephone: 800-533-1710



TEST DEFINITION

5/1/2009

MML NAME/ORDER CODE CROSS-REFERENCE
CODE NAME

800273 INTRINSIC FACTOR BLOCKING AB, S

MML MML TEST SETUP INFORMATION

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
800273	4/3/2009		INTRINSIC FACTOR BLOCKING AB, S			MCF
			TRANSPORT TEMP : FROZEN\REFRIG < 2 DAYS OK\AMBIENT NO			
			800273 INTRINSIC FACTOR BLOCKING AB, S			
			NO SEX			
			ALL AGES :			; NEGATIVE
			MALE			
			ALL AGES :			; NEGATIVE
			FEMALE			
			ALL AGES :			; NEGATIVE

*PERFORMING SITE LEGEND

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MCF	MAYO CLINIC JACKSONVILLE CLINICAL LAB	LAB DIRECTOR:	ARTHUR D. JONES, JR. M.D.
	4500 SAN PABLO RD		
	JACKSONVILLE, FL 32224		

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MML MESSAGES USED AS NORMALS
CODE TEXT

TOTAL OF 0 NORMALS CODES

*** END OF REPORT ***



LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME TESTING, K		PATIENT NUMBER		AGE 30	SEX F	ACCESSION # G9123448
ORDERING PHYSICIAN		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 04/07/09 10:43 A	RECEIVED 04/07/09 10:43 A	REPORT PRINTED 05/01/09 01:06 P		SPECIMEN INFORMATION DATE OF BIRTH:		
DATE TIME	DATE TIME	DATE TIME	DATE TIME			
Test Client Attn: Mayo Liaisons 200 First Street SW Rochester, MN 55905 507-284-8202						

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *
Intrinsic Factor Blocking Ab, S			
Intrinsic Factor Blocking Ab, S	Negative	Negative	MCF
Positive in 50% of persons with pernicious anemia.			

* PERFORMING SITE

MCF	Mayo Clinic Jacksonville Clinical Lab 4500 San Pablo Rd Jacksonville, Florida 32224	Lab Director: Arthur D. Jones, Jr. M.D.
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PATIENT NAME TESTING, K	ORDER STATUS Final	COLLECTION DATE AND TIME 04/07/09 10:43 A
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Specimen receipt and report times are in CST/CDT

REPRINT

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