



**TESTING RESUMED AND
REFERENCE VALUE CHANGE**
NOTIFICATION DATE: June 16, 2009
EFFECTIVE DATE: June 23, 2009

METHEMOGLOBINEMIA EVALUATION
#84159

EXPLANATION: Mayo Medical Laboratories is pleased to announce that testing of the Sulfhemoglobin component of this profile will resume June 23, 2009 with a new reference value.

NOTE: There will be no changes in the specimen requirements, pricing or CPT coding of these assays.

CURRENT REFERENCE VALUE: 0.0-1.0% of total hemoglobin

NEW REFERENCE VALUE: 0.0-0.4% of total hemoglobin

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager
Julie Breider, Mayo Medical Laboratories' Technologist Support
Telephone: 800-533-1710

TEST DEFINITION

6/16/2009

SET UP FOR TEST 84159 METHEMOGLOBINEMIA EVALUATION ALSO INCLUDES THE FOLLOWING REFLEX TESTS

Reflex Tests:

Unit Code	Reporting Name	Available Separately	Always Performed
9180	Hemoglobin S, Scrn, B	Yes	No
81510	Agar Elec. Confirms	No	No
9095	Hemoglobin, Unstable, B	Yes	No
81644	IEF Confirms	No	No
81509	Globin Elec. Confirms	No	No
8270	Hemoglobin F, Red Cell Distrib, B	Yes	No

CODE NAME

84159 METHEMOGLOBINEMIA EVALUATION

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
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84159 (PROFILE)			METHEMOGLOBINEMIA EVALUATION			
586	2/1/1996		METHEMOGLOBINEMIA INTERPRETATION			MCR
		586	METHEMOGLOBINEMIA INTERPRETATION			
- - - - -						
83341	5/4/2009		HEMOGLOBIN A2 AND F			MCR
			TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO			
		2381	Hb A2			
			UNITS: %			
			NO SEX			
			No AGE :		; #N2381CONN	
			1D TO 1M : 0-0.9		; <1.0	
			2M TO 11M :		; #N2381C11M2	
			12M TO 150Y : 2.0-3.3		; 2.0-3.3	

MALE
 No AGE : ; #N2381CONN
 1D TO 1M : 0-0.9 ; <1.0
 2M TO 11M : ; #N2381C11M2
 12M TO 150Y : 2.0-3.3 ; 2.0-3.3
 FEMALE
 No AGE : ; #N2381CONN
 1D TO 1M : 0-0.9 ; <1.0
 2M TO 11M : ; #N2381C11M2
 12M TO 150Y : 2.0-3.3 ; 2.0-3.3

2382 - - - -
 Hb F
 UNITS: %
 NO SEX

No AGE : ; #N2382CONN
 1D TO 1M : 60.0-90.0 ; 60.0-90.0
 2M TO 23M : ; #N2382C23MN
 24M TO 150Y : 0.0-2.0 ; 0.0-2.0

MALE
 No AGE : ; #N2382CONN
 1D TO 1M : 60.0-90.0 ; 60.0-90.0
 2M TO 23M : ; #N2382C23MN
 24M TO 150Y : 0.0-2.0 ; 0.0-2.0

FEMALE
 No AGE : ; #N2382CONN
 1D TO 1M : 60.0-90.0 ; 60.0-90.0
 2M TO 23M : ; #N2382C23MN
 24M TO 150Y : 0.0-2.0 ; 0.0-2.0

81428 5/4/2009 HEMOGLOBIN ELECTROPHORESIS, B MCR
 TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO
 2380 Hb A

UNITS: %
 NO SEX
 No AGE : ; #N2380CONN
 1D TO 1M : 10.0-40.0 ; 10.0-40.0
 2M TO 15M : ; #N2380C15MN
 16M TO 150Y : 95.0-98.0 ; 95.0-98.0

MALE
 No AGE : ; #N2380CONN
 1D TO 1M : 10.0-40.0 ; 10.0-40.0
 2M TO 15M : ; #N2380C15MN
 16M TO 150Y : 95.0-98.0 ; 95.0-98.0

FEMALE
 No AGE : ; #N2380CONN
 1D TO 1M : 10.0-40.0 ; 10.0-40.0
 2M TO 15M : ; #N2380C15MN
 16M TO 150Y : 95.0-98.0 ; 95.0-98.0

2383 - - - -
 VARIANT

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      UNITS: %
      NO SEX
      ALL AGES : ; NO ABNORMAL VARIANTS
      MALE
      ALL AGES : ; NO ABNORMAL VARIANTS
      FEMALE
      ALL AGES : ; NO ABNORMAL VARIANTS
      - - - - -
29224  VARIANT 2
      UNITS: %
      NO SEX
      ALL AGES : ; NO ABNORMAL VARIANTS
      MALE
      ALL AGES : ; NO ABNORMAL VARIANTS
      FEMALE
      ALL AGES : ; NO ABNORMAL VARIANTS
      - - - - -
29225  VARIANT 3
      UNITS: %
      NO SEX
      ALL AGES : ; NO ABNORMAL VARIANTS
      MALE
      ALL AGES : ; NO ABNORMAL VARIANTS
      FEMALE
      ALL AGES : ; NO ABNORMAL VARIANTS
      - - - - -
2101  INTERPRETATION
      - - - - -
80200  5/28/2009  METHEMOGLOBIN, B MCR
      TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO
8268  METHEMOGLOBIN, B
      UNITS: %
      NO SEX
      ALL AGES : 0.0-1.5 ; 0.0-1.5
      MALE
      ALL AGES : 0.0-1.5 ; 0.0-1.5
      FEMALE
      ALL AGES : 0.0-1.5 ; 0.0-1.5
      - - - - -
8272  5/28/2009  SULFHEMOGLOBIN, B MCR
      TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO
8272  SULFHEMOGLOBIN, B
      UNITS: %
      NO SEX
      ALL AGES : -0.4 ; 0.0-0.4
      MALE
      ALL AGES : -0.4 ; 0.0-0.4
      FEMALE
      ALL AGES : -0.4 ; 0.0-0.4
      - - - - -

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9323 2/1/1996 METHEMOGLOBIN M RATIOS MCR

TRANSPORT TEMP : REFRIG <72 HOURS\AMBIENT NO\FROZEN NO

9323 METHEMOGLOBIN M RATIOS

- - - - -

3003 METHEMOGLOBIN M 630/600 NM RATIO

NO SEX

ALL AGES : 1.25- ; > OR = 1.25

MALE

ALL AGES : 1.25- ; > OR = 1.25

FEMALE

ALL AGES : 1.25- ; > OR = 1.25

- - - - -

3004 METHEMOGLOBIN M 500/600 NM RATIO

NO SEX

ALL AGES : ; > OR = 2.80

MALE

ALL AGES : ; > OR = 2.80

FEMALE

ALL AGES : ; > OR = 2.80

- - - - -

3005 METHEMOGLOBIN M RATIOS COMMENT

- - - - -

9325 2/1/1996 HEMOGLOBIN SPECTRAL ABSORBANCE MCR

TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO

9325 HEMOGLOBIN SPECTRAL ABSORBANCE

- - - - -

3006 COMMENT

- - - - -

9322 7/15/2003 METHEMOGLOBIN REDUCTASE, B MCR

TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO

9322 METHEMOGLOBIN REDUCTASE, B

UNITS: IU/G HB

NO SEX

ALL AGES : 8.2-19.2 ; 8.2-19.2

MALE

ALL AGES : 8.2-19.2 ; 8.2-19.2

FEMALE

ALL AGES : 8.2-19.2 ; 8.2-19.2

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*PERFORMING SITE LEGEND

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MCR MAYO CLINIC DPT OF LAB MED & PATHOLOGY
200 FIRST STREET SW
ROCHESTER, MN 55905

LAB DIRECTOR: FRANKLIN R. COCKERILL, III, M.D.

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TEST DEFINITION

6/16/2009

CODE	NAME
81510	AGAR ELEC. CONFIRMS
81509	GLOBIN ELEC. CONFIRMS
8270	HEMOGLOBIN F, RED CELL DISTRIB, B
9180	HEMOGLOBIN S, SCRNB, B
9095	HEMOGLOBIN, UNSTABLE, B
81644	IEF CONFIRMS

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
8270	3/31/2003		HEMOGLOBIN F, RED CELL DISTRIB, B			MCR
			TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO			
		8270	HEMOGLOBIN F, RED CELL DISTRIB, B			
			NO SEX			
			ALL AGES :		; #N8270NE	
			MALE			
			ALL AGES :		; #N8270NE	
			FEMALE			
			ALL AGES :		; #N8270NE	
		2104	INTERPRETATION			
9095	3/31/2003		HEMOGLOBIN, UNSTABLE, B			MCR
			TRANSPORT TEMP : REFRIG <7 DAYS\AMBIENT NO\FROZEN NO			
		9095	HEMOGLOBIN, UNSTABLE, B			
			NO SEX			
			ALL AGES :		; #N9095	
			MALE			
			ALL AGES :		; #N9095	
			FEMALE			
			ALL AGES :		; #N9095	
9180	5/4/2009		HEMOGLOBIN S, SCRNB, B			MCR
			TRANSPORT TEMP : REFRIG\AMBIENT NO\FROZEN NO			

9180 HEMOGLOBIN S, SCRIN, B
NO SEX
ALL AGES : ; NEGATIVE
MALE
ALL AGES : ; NEGATIVE
FEMALE
ALL AGES : ; NEGATIVE

- - - - -

81509 3/31/2003 GLOBIN ELEC. CONFIRMS MCR
TRANSPORT TEMP :
81509 GLOBIN ELEC. CONFIRMS
- - - - -

81510 5/4/2009 AGAR ELEC. CONFIRMS MCR
TRANSPORT TEMP : REFRIG\AMBIENT OK\FROZEN NO
81510 AGAR ELEC. CONFIRMS
- - - - -

81644 3/31/2003 IEF CONFIRMS MCR
TRANSPORT TEMP :
81644 IEF CONFIRMS
- - - - -

*PERFORMING SITE LEGEND

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MCR MAYO CLINIC DPT OF LAB MED & PATHOLOGY LAB DIRECTOR: FRANKLIN R. COCKERILL, III, M.D.
200 FIRST STREET SW
ROCHESTER, MN 55905
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LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME TESTING, 84159		PATIENT NUMBER		AGE 54	SEX M	ACCESSION # G9129151
ORDERING PHYSICIAN 84159		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 06/10/09 01:00 A	RECEIVED	REPORT PRINTED 06/15/09 03:33 P		SPECIMEN INFORMATION DATE OF BIRTH:		
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 *
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Methemoglobinemia Interpretation**Methemoglobinemia****MCR****Interpretation**

Reviewed by Jennifer Herrick M.D.
 No increase in methemoglobin or sulfhemoglobin detected.
 An abnormal hemoglobin was not detected by electrophoresis
 or HPLC methods. Methemoglobin Reductase was within normal
 limits.
 Causes of a low Hb A2 include iron deficiency and alpha
 thalassemia.
 Slight increase of Hemoglobin F. The significance is
 uncertain.

Sulfhemoglobin, B

Sulfhemoglobin, B	H	0.5	%	0.0-0.4	MCR
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Methemoglobin Reductase, B

Methemoglobin Reductase, B		13.1	IU/g Hb	8.2-19.2	MCR
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Methemoglobin M Ratios

Methemoglobin M 630/600 nm Ratio		1.44		> or = 1.25	MCR
Methemoglobin M 500/600 nm Ratio		3.26		> or = 2.80	MCR

Hemoglobin Spectral Absorbance

Hemoglobin Spectral Absorbance		Normal			MCR
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Methemoglobin, B

Methemoglobin, B		0.0	%	0.0-1.5	MCR
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Met Hb concentration may decline 40%/day.

* Perform Site Legend on last page of report

PATIENT NAME TESTING, 84159	ORDER STATUS Final	COLLECTION DATE AND TIME 06/10/09 01:00 A
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Specimen receipt and report times are in CST/CDT

REPRINT

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06/15/2009 3:34PM



LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME TESTING, 84159		PATIENT NUMBER		AGE 54	SEX M	ACCESSION # G9129151
ORDERING PHYSICIAN 84159		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 06/10/09 01:00 A	RECEIVED	REPORT PRINTED 06/15/09 03:33 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 *
Hemoglobin Electrophoresis, B					
Hb A	L	93.8	%	95.0-98.0	MCR
Variant		0.0	%	No abnormal variants	MCR
Hemoglobin A2 and F					
Hb A2	L	1.9	%	2.0-3.3	MCR
Hb F	H	4.3	%	0.0-2.0	MCR

* PERFORMING SITE

MCR Mayo Clinic Dpt of Lab Med & Pathology 200 First Street SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.
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PATIENT NAME TESTING, 84159	ORDER STATUS Final	COLLECTION DATE AND TIME 06/10/09 01:00 A
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Specimen receipt and report times are in CST/CDT

REPRINT

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