

17-Hydroxypregnenolone, Serum

#81151

USEFUL FOR:

- As an ancillary test for congenital adrenal hyperplasia, particularly in situations in which a diagnosis of 21-hydroxylase and 11-hydroxylase deficiency have been ruled out.
- Confirming a diagnosis of 3-b-hydroxydehydrogenase (3-b-HSD) deficiency and 17-alpha-hydroxylase deficiency.
- Analysis for 17-hydroxypregnenolone is also useful as part of a battery of tests to evaluate females with hirsutism or infertility. Both can result from adult-onset CAH.

METHODOLOGY: Liquid Chromatography- Tandem Mass Spectrometry (LC-MS/MS)

REFERENCE VALUES:

Children	Premature (26-28 weeks)	1219-9799 ng/dL
	Premature (29-36 weeks)	346-8911 ng/dL
	Full Term (1-5 months)	229-3104 ng/dL
	6 months- 364 days	221-1981 ng/dL
	1-2 years	35-712 ng/dL
	3-6 years	< or = 276 ng/dL

	Females	Males
7-9 years	< or = 212 ng/dL	< or = 187 ng/dL
10-12 years	< or = 398 ng/dL	< or = 392 ng/dL
13-15 years	< or = 407 ng/dL	35-465 ng/dL
16-17 years	< or = 423 ng/dL	32-478 ng/dL
Tanner Stage I	< or = 235 ng/dL	< or = 208 ng/dL
Tanner Stage II	< or = 367 ng/dL	< or = 355 ng/dL
Tanner Stage III	< or = 430 ng/dL	< or = 450 ng/dL
Tanner Stage IV-V	< or = 412 ng/dL	35-478 ng/dL
> or = 18 years	31-455 ng/dL	55-455 ng/dL

SPECIMEN REQUIREMENTS: Draw blood in plain, red-top tube. Send 0.5 mL serum frozen.

NOTE: This test will replace Esoterix test #80483, 17-OH Pregnenolone, Serum effective December 8, 2009.

CPT CODE: 84143

ANALYTIC TIME: 2 days

LIST FEE: \$98.50

SET UP: Wednesday 10 a.m.

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager
Jeremy Caddell, Mayo Medical Laboratories' Technical Support
Telephone: 800-533-1710

TEST DEFINITION

10/19/2009

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
81151	8/19/2009		17-HYDROXYPREGNENOLONE, S			MCR
		TRANSPORT	TEMP : FROZEN			
		81151	17-HYDROXYPREGNENOLONE, S			
			UNITS: NG/DL			
			MALE			
			No AGE :		; #N81151M	
			1D TO 5M : 229-3104		; #N81151C5	
			6M TO 11M : 221-1981		; 221-1981	
			12M TO 2Y : 35-712		; 35-712	
			3Y TO 6Y : 0-276		; #N81151M6	
			7Y TO 9Y : 0-187		; #N81151M9	
			10Y TO 12Y : 0-392		; #N81151M12	
			13Y TO 15Y : 35-465		; #N81151M15	
			16Y TO 17Y : 32-478		; #N81151M17	
			18Y TO 150Y : 55-455		; 55-455	
			FEMALE			
			No AGE :		; #N81151F	
			1D TO 5M : 229-3104		; #N81151C5	
			6M TO 11M : 221-1981		; 221-1981	
			12M TO 2Y : 35-712		; 35-712	
			3Y TO 6Y : 0-276		; #N81151F6	
			7Y TO 9Y : 0-212		; #N81151F9	
			10Y TO 12Y : 0-398		; #N81151F12	
			13Y TO 15Y : 0-407		; #N81151F15	
			16Y TO 17Y : 0-423		; #N81151F17	
			18Y TO 150Y : 31-455		; 31-455	

*PERFORMING SITE LEGEND

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

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

CODE	TEXT
N81151C5	PREMATURE INFANTS: 26-28 WK: 1219-9799 PREMATURE INFANTS: 29-36 WK: 346-8911 FULL TERM: 1-5 MO: 229-3104

N81151F	PREMATURE INFANTS: 26-28 WK: 1219-9799 PREMATURE INFANTS: 29-36 WK: 346-8911 FULL TERM: 1-5 MO: 229-3104
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221-1981 (6 MO-364 D)
35-712 (1-2 Y)
<16-276 (3-6 Y)
<16-212 (7-9 Y)
<16-398 (10-12 Y)
<16-407 (13-15 Y)
<16-423 (16-17 Y)
31-455 (>=18 Y)

TANNER STAGES: FEMALES
I <16-235
II <16-367
III <16-430
IV-V <16-412

N81151F12	<16-398
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TANNER STAGES: FEMALES
I <16-235
II <16-367
III <16-430
IV-V <16-412

CODE	TEXT
N81151F15	<16-407

TANNER STAGES: FEMALES
I <16-235
II <16-367

III <16-430
IV-V <16-412

N81151F17 <16-423

TANNER STAGES: FEMALES

I <16-235
II <16-367
III <16-430
IV-V <16-412

N81151F6 <16-276

TANNER STAGES: FEMALES

I <16-235
II <16-367
III <16-430
IV-V <16-412

N81151F9 <16-212

TANNER STAGES: FEMALES

I <16-235
II <16-367
III <16-430
IV-V <16-412

CODE TEXT

N81151M PREMATURE INFANTS: 26-28 WK:
1219-9799
PREMATURE INFANTS: 29-36 WK:
346-8911
FULL TERM: 1-5 MO:
229-3104

221-1981 (6-11 MO)
35-712 (1-2 Y)
<16-276 (3-6 Y)
<16-187 (7-9 Y)
<16-392 (10-12 Y)
35-465 (13-15 Y)
32-478 (16-17 Y)
55-455 (>=18 Y)

TANNER STAGES: MALES

I <16-208
II <16-355
III <16-450
IV-V 35-478

N81151M12 <16-392

TANNER STAGES: MALES

I <16-208
II <16-355
III <16-450
IV-V 35-478

N81151M15 35-465

TANNER STAGES: MALES

I <16-208
II <16-355
III <16-450
IV-V 35-478

N81151M17 32-478

TANNER STAGES: MALES

I <16-208
II <16-355
III <16-450
IV-V 35-478

CODE TEXT

N81151M6 <16-276

TANNER STAGES: MALES

I <16-208
II <16-355
III <16-450
IV-V 35-478

N81151M9 <16-187

TANNER STAGES: MALES

I <16-208
II <16-355
III <16-450
IV-V 35-478

TOTAL OF 13 NORMALS CODES

*** END OF REPORT ***

1-800-533-1710

PATIENT NAME TESTING, EMIR IS		PATIENT NUMBER		AGE 40	SEX M	ACCESSION # G9137263
ORDERING PHYSICIAN		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 10/13/09 09:04 A DATE TIME	RECEIVED 10/13/09 09:04 A DATE TIME	REPORT PRINTED 10/19/09 10:39 A DATE TIME		SPECIMEN INFORMATION DATE OF BIRTH:		
Test Client Attn: Mayo Liaisons 200 First Street SW Rochester, MN 55905 507-284-8202						

TEST REQUESTED	HI LO		REF RANGE	PERFORM SITE *
17-Hydroxypregnenolone, S				
17-Hydroxypregnenolone, S	160	ng/dL	55-455	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, EMIR IS	ORDER STATUS Final	COLLECTION DATE AND TIME 10/13/09 09:04 A
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