

Overview

Method Name

High Pressure Liquid Chromatography/Tandem Mass
Spectrometry (HPLC/MS-MS)

NY State Available

Yes

Specimen

Specimen Type

Serum Red

Specimen Required

Specimen Type: Serum

Container/Tube: Red

Specimen Volume: 3.5 mL

Collection Instructions: Draw blood in a plain, red-top tube(s). (Serum gel tube is not acceptable.) Spin down and separate within 45 minutes of collection and send 3.5 mL of serum frozen in plastic vial.

Specimen Minimum Volume

2 mL NOTE: Minimum volume does not allow for repeat analysis.

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icteric	Reject
Gel-barrier tube, non-serum sample	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen	90 days	

Clinical & Interpretive

Reference Values

Androstenedione

Units: ng/dL

Age	Range
Premature (26-28w) Day 4	63-935
Premature (31-35w) Day 4	50-449
Full Term (1-7 days)	<10-279

Levels decrease rapidly to <52 ng/dL after one week.

1-11m	<10-37
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Androstenedione gradually decreases during the first six months to prepubertal levels.

Prepubertal Children	<10-17
Adult Males	44-186
Adult Females	2 -230
Females Postmenopausal	<10-93

Cortisol

Units: ug/dL

Age	Range
Premature (26-28w) Day 4	1.0-11
Premature (31-35w) Day 4	2.5-9.1
Full Term Day 3	1.7-14
Full Term Day 7	2.0-11
31d - 11m	2.8-23
12m - 15y (8:00 AM)	3 .0-21

Adults	
8:00 AM	8.0-19
4:00 PM	4.0-11

Deoxycorticosterone (DOC)

Units: ng/dL

Age	Range
Premature (26-28w) Day 4	20-105
Premature (34-36w) Day 4	28-78

Newborn: Levels are markedly elevated at birth and decrease rapidly during the first week to the range of 7-49 as found

in older infants.

1-11m	7-49
Prepubertal Children	2-34
Pubertal Children and Adults	2-19
8:00 AM	

Dehydroepiandrosterone (DHEA)

Units: ng/dL

Age	Range
Premature (26-31w)	82-1484
Premature (32-35w)	56-1853
Full Term (2-7d)	41-1292
8d-5m	<948
6-12m	<136
1-5 y	<68
6-7 y	<111
8-10 y	<186
11-12 y	<202
13-14 y	<319
15-16 y	39-481
17-19 y	40-491
20-50 y	31-701
>50 y	21-402

11-Desoxycortisol

Units: ng/dL

Age	Range
Premature (26-28w) Day 4	110-1376
Premature (31-35w) Day 4	48-579
Newborn Day 3	13-147
1-11m	<10-156
Prepubertal 8:00 AM	20-155
Pubertal Children and Adults	12-158
8:00 AM	

17-OH Pregnenolone

Units: ng/dL

Age	Range
Premature (26-28w) Day 4	375-3559
Premature (31-35w) Day 4	64-2380
3 Days	10-829
1-5m	36-763
6-11m	42-540

12-23m	14-207
24m-5y	10-103
6-9y	10-186
Pubertal	44-235
Adults	53-357

Progesterone

Units: ng/dL

Males

Age	Range
1-16y	<10-15
Adults	<10-11

Females

Age	Range
1-10y	<10-26
11y	<10-255
12y	<10-856
13y	<10-693
14y	<10-1204
15y	<10-1076
16y	<10-1294

Adult

Cycle Days	Range
1-6	<10-17
7-12	<10-135
13-15	<10-1563
16-28	<10-2555
Post Menopausal	<10

Note: Luteal progesterone peaked from 350 to 3750 ng/dL on days ranging from 17 to 23.

17-Alpha-Hydroxyprogesterone

17-OHP

Units: ng/dL

Age	Range
Premature (26-28w) Day 4	124-841
Premature (31-35w) Day 4	26-568
Full-Term Day 3	<78

Males: Levels increase after the first week to peak values ranging from 40-200 between 30 and 60 days. Values then decline to a prepubertal value of <91 before one year.

Prepubertal	<91
Adult Males	27-199

Females	
1-11m	13-106
Prepubertal	<91
Adult Females	
Follicular	15-70
Luteal	35-290

Testosterone, Total

Units: ng/dL

Age	Range
Males	
Premature (26-28w) Day 4	59-125
Premature (31-35w) Day 4	37-198
Newborns	75-400

1-7m: Levels decrease rapidly the first week to 20-50, then increase to 60-400 between 20-60 days. Levels then decline to prepubertal range levels of <2.5-10 by seven months.

Females	
Premature (26-28w) Day 4	5-16
Premature (31-35w) Day 4	5-22
Newborns	20-64

1-7m: Levels decrease during the first month to less than 10 and remain there until puberty.

Prepubertal Males and Females	<2.5-10
Adult Males >18 years	264-916
Adult Females	
Premenopausal	10-55
Postmenopausal	7-40

Males		
Tanner Stage	Age (years)	Range
1	<9.8	<2.5-10
2	9.8-14.5	18-150
3	10.7-15.4	100-320
4	11.8-16.2	200-620
5	12.8-17.3	350-970

Females		
Tanner Stage	Age (years)	Range
1	<9.2	<2.5-10
2	9.2-13.7	7-28

3	10.0-14.4	15-35
4	10.7-15.6	13-32
5	11.8-18.6	20-38

Performance

PDF Report

No

Day(s) Performed

Monday, Wednesday

Report Available

10 to 19 days

Performing Laboratory Location

Esoterix Endocrinology

Fees & Codes

Fees

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

Test Classification

This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

CPT Code Information

- 82633/DOC
- 82634/ 11-Desoxycortisol
- 82157/Androstenedione
- 82533/Cortisol
- 82626/DHEA
- 84143/17-OH-Pregnenolone
- 84144/Progesterone
- 83498/17-OH-Progesterone
- 84403/Testosterone

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FFCAH	CAH Profile 6	Not Provided

Result ID	Test Result Name	Result LOINC® Value
Z5043	Cortisol	2143-6
Z5044	Deoxycorticosterone (DOC)	1656-8
Z5045	11-Desoxycortisol	1657-6
Z5046	Dehydroepiandrosterone (DHEA)	2193-1
Z5047	17-OH Pregnenolone	6765-2
Z5048	Progesterone	2839-9
Z5049	17-Alpha-Hydroxyprogesterone 17-OHP	1668-3
Z5050	Androstenedione	1854-9
Z5051	Testosterone, Total	2986-8