

Overview**Method Name**

High-pressure liquid chromatography/tandem mass spectrometry (HPLC/MS-MS); Electrochemiluminescence immunoassay (ECLIA)

NY State Available

Yes

Specimen**Specimen Type**

Serum Red

Specimen Required

Draw blood in a plain red-top tube (serum gel tube is not acceptable). Spin down, pour off into plastic vial within 1 hour of collection, and send 3 mL serum frozen.

Specimen Minimum Volume

1.5 mL Note: This volume does not allow for repeat testing.

Reject Due To

Hemolysis	NA
Lipemia	NA
Icterus	NA
Other	NA

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum Red	Frozen (preferred)	180 days	
	Ambient	48 hours	
	Refrigerated	48 hours	

Clinical and Interpretive**Reference Values****Estradiol, Serum MS**

Units: pg/mL

Age Range

Newborn

Levels are markedly elevated at birth and fall rapidly during the first week to prepubertal values of <15.

Males <6 m

Levels increase to 10 - 32 between 30 and 60 days, then decline to prepubertal levels of <15 by six months.

Females <1 y

Levels increase to 5.0 - 50 between 30 and 60 days, then decline to prepubertal levels of <15 during the first year.

Prepubertal <15

Adult Males 8.0 - 35

Adult Females

Follicular 30 - 100

Luteal 70 - 300

Postmenopausal <15

Free Estradiol, Percent

Units: %

Age Range

Adult Males 1.7 - 5.4

Adult Females 1.6 - 3.6

Free Estradiol, Serum

Units: pg/mL

Age Range

Adult Males 0.2 - 1.5

Adult Females 0.6 - 7.1

Sex Hormone Binding Globulin

Units: nmol/L

Age Range

Infants (1 - 23m) 60.0 - 252.0

Prepubertal 72.0 - 220.0

Pubertal

Males 16.0 - 100.0

Females 36.0 - 125.0

Adult Males

20 - 49 y 16.5 - 55.9

>49y 19.3 - 76.4

Adult Females

20 - 49y 24.6 - 122.0

>49y 17.3 - 125.0

Performance

PDF Report

No

Day(s) and Time(s) Test Performed

Varies

Analytic Time

3 - 5 days

Maximum Laboratory Time

5 - 9 days

Performing Laboratory Location

Esoterix Endocrinology

Fees and 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 Regional Manager. 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

82681 "Free Estradiol"

84270 - Sex Hormone binding globulin

82670 - Estradiol

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
FFES	Free Estradiol with SHBG	Not Provided

Result ID	Test Result Name	Result LOINC Value
Z0259	Estradiol, Serum	35384-7
Z0228	Free Estradiol, Percent	14960-9
Z0229	Free Estradiol, Serum	2240-0
Z0230	Sex Hormone Binding Globulin (SHBG)	13967-5