

## TEST CHANGE

### Estrogens, Fractionated, by Mass Spectrometry

0093248, EST FR TMS

#### Specimen Requirements:

##### Patient Preparation:

**Collect:** Serum separator tube, lavender (EDTA), pink (K2EDTA), or green (sodium or lithium heparin).

**Specimen Preparation:** Separate serum or plasma from cells within 2 hours of collection. Transfer 0.5 mL serum or plasma to an ARUP Standard Transport Tube. (Min 0.3 mL)

**Transport Temperature:** Refrigerated.

##### Unacceptable Conditions:

##### Remarks:

**Stability:** After separation from cells: Ambient: 48 hours; Refrigerated: 1 week; Frozen: 1 month

**Methodology:** Quantitative High Performance Liquid Chromatography-Tandem Mass Spectrometry

**Performed:** Sun-Sat

**Reported:** 1-54 days

##### Note:

**CPT Codes:** 82671

**New York DOH Approval Status:** This test is New York DOH approved.

##### Interpretive Data:

For a complete set of all established reference intervals, refer to [ltd.aruplab.com/Tests/Pub/0093248](http://ltd.aruplab.com/Tests/Pub/0093248).

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

**Reference Interval:**

Test Number	Components	Reference Interval		
	<b>Estradiol by Mass Spec</b>			
		Age	Male (pg/mL)	Female (pg/mL)
		7-9 years	Less than 7.0	Less than 36.0
		10-12 years	Less than 11.0	1.0-87.0
		13-15 years	1.0-36.0	9.0-249.0
		16-17 years	3.0-34.0	2.0-266.0
		18 years and older	10.0-42.0	Premenopausal Early Follicular: 30.0-100.0 Late Follicular: 100.0- 400.0 Luteal: 50.0-150.0 Postmenopausal: 2.0-21.0
		Tanner Stage I	Less than 8.0	Less than 56.0
		Tanner Stage II	Less than 10.0	2.0-133.0
		Tanner Stage III	1.0-35.0	12.0-277.0
		Tanner Stage IV-V	3.0-35.0	2.0-259.0
	<b>Estrone by Mass Spec</b>			
		Age	Male (pg/mL)	Female (pg/mL)
		7-9 years	Less than 7.0	Less than 20.0
		10-12 years	Less than 11.0	1.0-40.0
		13-15 years	1.0-30.0	8.0-105.0
		16-17 years	1.0-32.0	4.0-133.0
		18 years and older	9.0-36.0	Premenopausal Early Follicular: Less than 150.0 Late Follicular: 100.0-250.0. Luteal: Less than 200.0 Postmenopausal: 3.0-32.0
		Tanner Stage I	Less than 7.0	Less than 27.0
		Tanner Stage II	Less than 11.0	1.0-39.0
		Tanner Stage III	1.0-31.0	8.0-117.0
		Tanner Stage IV-V	2.0-30.0	4.0-109.0
	<b>Estrogens Total Calculation</b>			

Age	Male (pg/mL)	Female (pg/mL)
7-9 years	Less than 10.0	1.0-48.0
10-12 years	1.0-19.0	2.0-116.0
13-15 years	3.0-62.0	15.0-333.0
16-17 years	4.0-64.0	6.0-354.0
18 years or older	19.0-69.0	Premenopausal Early Follicular: 30.0-250.0 Late Follicular: 200.0- 650.0 Luteal: 50.0-350.0 Postmenopausal: 5.0-52.0
Tanner Stage I	1.0-11.0	1.0-86.0
Tanner Stage II	1.0-19.0	3.0-169.0
Tanner Stage III	3.0-61.0	23.0-351.0
Tanner Stage IV- V	4.0-62.0	8.0-341.0

