

Estradiol and Estrone, Serum

Method:	Liquid Chromatography-Tandem Mass Spectrometry (LC/MS/MS)
Description:	Estradiol and Estrone in human serum is extracted by Solid Phase Extraction (SPE), and eluted by High Performance of Liquid Chromatography (HPLC). The determination is done by Mass Spectrometry (MS) in Electrospray Ionization (ESI) source Deuterated stable isotope is utilized as for the calibration of assay.

Collection and Performance Characteristics

Tube type:	Preferred: SST Alternate:
Minimum Volume:	0.5 mL
Lowest Reportable Value:	1pg/mL
Dynamic Range:	1-500pg/mL (Estradiol); 1-250pg/mL (Estrone);
Precision:	Intra-assay: <5% RSD Inter-assay: <12%RSD
Reference Ranges:	Estradiol Male: 10 - 50 pg/mL Female (premenopausal): 30 - 400 pg/mL Female (postmenopausal): 0 - 30 pg/mL Estrone Male: 10 – 60pg/mL Female (premenopausal): 17-200 pg/mL Female (postmenopausal): 7-40 pg/mL