Total Testosterone

Method:	Liquid Chromatography-Tandem Mass Spectrometry (LC/MS/MS)
Description:	Testosterone in human serum are extracted by Solid Phase Extraction (SPE), eluted by High Performance of Liquid Chromatography (HPLC), and determinated by Mass Spectrometry (MS) in Electrospray Ionization (ESI^+) source. Deuterated stable isotope dilution is utilized as a internal standard for the calibration of assay.

Collection and Performance Characteristics

Tube type:	Preferred: SST Alternate:Plasma
Minimum Volume:	0.3 mL
Lowest Reportable Value (Limit of Quantification):	0.2 ng/dL
Dynamic Range:	1-200ng/dL
Precision:	Males Intra-assay variation is <2% RSD Inter-assay variation is <7%RSD Females Intra-assay variation is <5% RSD Inter-assay variation is <5%RSD
Reference Range:	Males: 270 – 1070ng/dL Females: 15 –70 ng/dL Children : 2-20ng/mL

Note: Patient's age and gender is required to perform the assay