

Brigham Research Assay Core (BRAC)  
221 Longwood Avenue  
Boston, MA 02115  
Director: Gordon Williams, MD

## Human Thyroid-Stimulating Hormone (TSH)

Method:	Access Chemiluminescent Immunoassay
Kit Manufacturer:	Beckman Coulter, Fullerton, CA
Description:	The Access HYPERsensitive hTSH assay is a paramagnetic-particle, chemiluminescence immunoassay for the quantitative determination of total TSH in human serum, using the Access Immunoassay System (Beckman Coulter, Chaska, MN). The Access HYPERsensitive (hTSH) assay is a solid-phase immunoenzymatic assay with virtually no cross-reactivity to other peptide hormones. The sensitivity and specificity of this test enables better discrimination between hyperthyroid and euthyroid patients.

### Collection and Performance Characteristics

Tube type:	Preferred: SST Alternate: Heparin
Minimum Volume:	0.5 mL
Lowest Reportable Value:	0.01 uIU/mL
Dynamic Range:	0.01-100 uIU/mL
Precision:	Intra-assay variation is 2.49-5.83 % Inter-assay variation is 2.76-10.62%
Reference Range:	0.5 – 5.0 uIU/mL