

## Sex Hormone-Binding Globulin, Serum

**Test ID:** SHBG1

### Useful for:

Diagnosis and follow-up of women with symptoms or signs of androgen excess (eg, polycystic ovarian syndrome and idiopathic hirsutism)

An adjunct in monitoring sex-steroid and antiandrogen therapy

An adjunct in the diagnosis of disorders of puberty

An adjunct in the diagnosis and follow-up of anorexia nervosa

An adjunct in the diagnosis of thyrotoxicosis (tissue marker of thyroid hormone excess)

A possible adjunct in diagnosis and follow-up of insulin resistance and cardiovascular and type 2 diabetes risk assessment, particularly in women

### Methods:

Immunoenzymatic Assay

### Reference Values:

CHILDREN

Males

Tanner Stages	Mean Age	Reference Interval (nmol/L)
Stage I	10.4	17-135
Stage II	11.1	21-114
Stage III	12.7	12-138
Stage IV	14.5	7.7-67
Stage V	14.2	3.9-40

Females

Tanner Stages	Mean Age	Reference Interval (nmol/L)
Stage I	10.5	16-182
Stage II	10.9	24-121

Stage III	12.5	18-87
Stage IV	14	7.7-108
Stage V	14.9	10-79

## ADULTS

### Males

> or =18 years: 13.3-89.5 nmol/L

### Females

18-46 years: 18.2-135.5 nmol/L

47-91 years, post-menopausal: 16.8-125.2 nmol/L

## Specimen Requirements:

### Container/Tube:

**Preferred:** Serum gel

**Acceptable:** Red top

**Specimen Volume:** 1 mL

**Specimen Minimum Volume:** 0.5 mL

## Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	14 days
	Ambient	7 days
	Frozen	90 days

## Cautions:

In rare cases, interference due to extremely high titers of antibodies to analyte-specific reagents (human antimouse or heterophile antibodies) can occur. The laboratory should be alerted if the result does not correlate with the clinical presentation.

For patients presenting with cirrhosis or sub-clinical thyroid conditions, carefully evaluate results as these conditions can potentially cause erroneous sex hormone-binding globulin (SHBG) results.

SHBG results should be interpreted in light of the total clinical presentation of the patient, including: symptoms, clinical history, data from additional tests, and other appropriate information.

## CPT Code:

84270

**Day(s) Setup:** Monday through Friday; 5 a.m.-12 a.m.  
Saturday; 6 a.m.-3 p.m.

**Analytic Time:** Same day/1 day

## Questions

Contact Amy Ennis, Laboratory Technologist Resource Coordinator at 800-533-1710.