

# GROWTH HORMONE SERUM/ PLASMA

## Orderable - GH

Turn Around Time: 4 hours

### Alternate Name(s):

Human Growth Hormone  
hGH

### Specimen:

Adult	Pediatric
4.5 mL Light Green top Vacutainer tube	0-2 years: 0.5 mL Light Green top Microtainer 2-10 years: 3 mL Light Green top Vacutainer tube
Red, Gold, or Lavender (EDTA) top tubes are also acceptable	

### Collection Information:

Minimum volume of plasma or serum required is 700 µL for adult samples or 200 µL for pediatric samples.

### Reference Ranges:

Male	
Age	Range
0 – 10 years:	≤ 6.3 µg/L*
11 – 17 years:	≤ 10.8 µg/L*
21 – 77 years:	≤ 2.5 µg/L*

Female	
Age	Range
0 – 10 years:	≤ 7.8 µg/L*
11 – 17 years:	≤ 8.1 µg/L*
21 – 77 years:	≤ 9.9 µg/L*

\*Basal levels of growth hormone do not have diagnostic relevance. Stimulation or suppression tests are needed to diagnose a growth hormone-related disorder.

Children: ≥ 6 µg/L following provocative testing is not consistent with growth hormone deficiency



**Laboratory:**  
Core Lab



**Requisition:**  
GENERAL LABORATORY  
REQUISITION



**Method of Analysis:**  
Roche  
Electrochemiluminescence



**Test Schedule:**  
As required



GROWTH  
HORMONE  
SERUM/  
PLASMA

**Comments:**

Biotin may interfere with this test. Samples should not be taken from patients receiving high biotin doses (i.e. > 5 mg/day) until at least 8 hours after the last biotin administration.

This assay is affected by pegvisomant (a highly selective growth hormone receptor antagonist).

This assay is not suitable for pregnant women due to cross-reactivity with placental growth hormone.