
Lab Dept: Chemistry

Test Name: DIHYDROTESTOSTERONE, SERUM

General Information

Lab Order Codes: DHTS

Synonyms: DHT

CPT Codes: 82642 –Dihydrotestosterone (DHT)

Test Includes: Dihydrotestosterone level reported in pg/mL.

Logistics

Test Indications: Monitoring patients receiving 5-alpha reductase inhibitor therapy or chemotherapy. Evaluating patients with possible 5-alpha reductase deficiency.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Clinic Laboratory (Mayo test: DHTS)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 - 8 days, performed Monday, Wednesday, Thursday, Friday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: Preferred: Red NO GEL
Alternate: SST (Gold or marble)

Draw Volume: 3 mL (Minimum: 1.8 mL) blood

Processed Volume: 1 mL (Minimum: 0.6 mL) serum.

Collection: Routine blood collection

Special Processing: Lab Staff: Centrifuge specimen. Remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens

Interpretive

Reference Range:

Premature Infants:

Infants:				
Age:	Male (pg/mL)		Female (pg/mL)	
Cord blood:	≤100 pg/mL		≤50 pg/mL	
≤6 months:	≤1200 pg/mL		≤1200 pg/mL	
Tanner Stages				
Tanner Stage	Male Age (yrs)	DHT pg/mL	Female Age (yrs)	DHT pg/mL
I (>6 mos & prepubertal)	7.1	≤50	7.1	≤50
II	12.1	≤200	10.5	≤300
III	13.6	80 - 330	11.6	≤300
IV	15.1	220 - 520	12.3	≤300
V	18	240 – 650	14.5	≤300
Adults:				
Age	Male (pg/mL)		Female (pg/mL)	
>19 years	112 – 955 pg/mL			
20 – 55 years			≤300 pg/mL	
>55 years			≤128 pg/mL	

Critical Values:

N/A

Limitations:

Patients with benign prostatic hyperplasia (BPH) or prostatic cancer may not have elevated dihydrotestosterone (DHT) levels even though growth of the prostate gland may be stimulated by DHT.

Methodology:

Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

References:

[Mayo Clinic Laboratories](#) (August 2021)

Updates:

8/3/2009: Note updated reference ranges.

3/10/2014: CPT update, previously listed as 82651.

11/9/2017: Method, ref range and collection container update

8/23/2021: Moved from Esoterix to Mayo.