
Lab Dept: Chemistry

Test Name: DHEA-S

General Information

Lab Order Codes: DHES

Synonyms: Dehydroepiandrosterone Sulfate; DHEA Sulfate

CPT Codes: 82627 - Dehydroepiandrosterone Sulfate

Test Includes: DHEA-S level reported in ug/dL.

Logistics

Test Indications: Used to work up women with infertility, amenorrhea, or hirsutism, to identify the source of excessive androgen. Aid in evaluation of androgen excess (hirsutism and/or virilization), including congenital adrenal hyperplasia, adrenal tumor, and Stein - Leventhal syndrome. DHEA-S is not increased with hypopituitarism. It is low in Addison's disease.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Esoterix, Inc. (Lab Corp Test: 500120)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 - 7 days, test set up Monday - Saturday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) tube

Draw Volume: 1.5 mL (Minimum: 0.3 mL) blood

Processed Volume: 0.5 mL (Minimum 0.1 mL) serum
Note: Minimum volume does not permit repeat analysis.

Collection: Routine venipuncture

Special Processing: Lab Staff: Centrifuge specimen within 1 hour of collection. Remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.

Patient Preparation: Avoid recently administered radioisotopes

Sample Rejection: Recently administered radioisotopes; unlabeled or mislabeled specimens

Interpretive

Reference Range:

Premature Infants:

26 – 28 weeks, Day 4:	123 – 882 ug/dL			
31 – 35 weeks, Day 4:	122 – 710 ug/dL			
Full Term Infants:				
3 days:	88 – 356 ug/dL			
1 – 11 months	DHEA-S levels fall to <112 ug/dL during the first month and decrease further to <49 ug/dL by 6 months of age.			
Prepubertal Children:				
1 – 5 years:	<57 ug/dL			
6 – 7 years:	<72 ug/dL			
8 – 10 years:	<193 ug/dL			
Puberty:				
	MALE		FEMALE	
Tanner Stage	Age (years)	Range (ug/dL)	Age (years)	Range (ug/dL)
1	<9.8	13 – 83	<9.2	19 – 144
2	9.8 – 14.5	42 – 109	9.2 – 13.7	34 – 129
3	10.7 – 15.4	48 – 200	10.0 – 14.4	32 – 226
4	11.8 – 16.2	102 – 385	10.7 – 15.6	58 – 260
5	12.8 – 17.3	120 – 370	11.8 – 18.6	44 – 248
Adults:				
	MALE		FEMALE	
Age	Range (ug/dL)		Range (ug/dL)	
21 – 30 years	38 – 523		22 – 372	
31 – 40 years	33 – 416		17 – 286	

41 – 50 years	16 – 390	<229
51 – 60 years	<298	<215
61 – 70 years	<251	<128
71 – 80 years	<208	<111
81 – 90 years	<106	<101

Critical Values:

N/A

Limitations:

N/A

Methodology:

HPLC, Tandem Mass Spectrometry

References:

[Esoterix, Inc. Web Page](#) November 2017