

Datasheet for ABIN2648623

Dehydroepiandrosterone Sulfate ELISA Kit[Go to Product page](#)

Overview

Quantity: 96 tests

Target: Dehydroepiandrosterone Sulfate

Reactivity: Human

Application: ELISA

Product Details

Sample Type: Saliva

Detection Method: Colorimetric

Sensitivity: 0.068 ng/ml

Characteristics: The Salivary DHEA-S ELISA Kit is designed and validated for the quantitative determination of Dehydroepiandrosterone Sulfate (DHEA-S) in human saliva by a microplate enzyme immunoassay (ELISA). DHEA is present in blood almost exclusively in its sulfated form DHEA-S. Preliminary studies to date have shown good correlation in most cases between urinary 17-ketosteroid values and serum DHEA-S. However, 17-ketosteroids do not always reflect production of adrenal or gonadal androgens. Under stressful situations, the metabolism of these steroids is affected, leading to excretion of non-17-ketosteroids. Also, certain drugs are known to produce the same effects. Under those conditions, the urinary 17-ketosteroid levels would underestimate the production rate of DHEA and DHEA-S by the gonads and adrenals. Lastly, but not least, the metabolites of the potent 17 b-ol-androgen, testosterone and dihydrotestosterone, contribute very little to urinary 17-ketosteroids in women. Measurement of plasma DHEA-S may be used instead of urinary 17-ketosteroids in evaluating conditions of adrenal androgen excess. Normally the ovary contributes less than 10 % to plasma DHEA-S levels, whereas, the adrenal contributes over 90 %. These proportions do not change

Product Details

significantly in cases of hirsutism due to ovarian androgen excess in these cases, the ovary secretes excess of the potent 17 β -ol-androgens: Testosterone and dihydrotestosterone. Therefore, to evaluate the origin of androgen excess in cases of hirsutism, the measurement of plasma DHEA-S and the 17 β -ol-androgens will be of greater value than measurement of urinary 17-ketosteroids. DHEA-S ELISA Kit uses a monospecific Anti-DHEA-S antibody and does not measure DHEA or other structurally related steroids.

Target Details

Target:	Dehydroepiandrosterone Sulfate
Alternative Name:	DHEA-S (Dehydroepiandrosterone Sulfate Products)

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Sample Volume:	100 μ L
Assay Time:	1.5 h
Protocol:	The basis of the Salivary DHEA-S Enzyme Immunoassay Kit (ELISA) is the quantitative relation between ligand concentration and the proportion of DHEA-S enzyme conjugate bound to the antiserum. For example: DHEA-S in the calibrators and unknowns compete with DHEA-S coupled to peroxidase for antibody binding sites. After incubation, unbound components are washed away. The reaction between DHEA-S peroxidase with the substrate TMB produces a blue color. After a pre-determined time of incubation the reaction is stopped and a yellow color is formed. The color intensity (read at 450 nm) is inversely proportional to the DHEA-S concentration of the sample.
Restrictions:	For Research Use only

Handling

Storage:	4 °C
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