

**CPA398Ge11 50µg**  
**BSA Conjugated Dehydroepiandrosterone (DHEA)**  
**Organism Species: General**  
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

## **[ PROPERTIES ]**

**Antigen:** DHEA-BSA

**Chemical Formula:** C<sub>19</sub>H<sub>28</sub>O<sub>2</sub>

**Mol. Mass:** 288.4Dg/mol

**Purity:** >95%

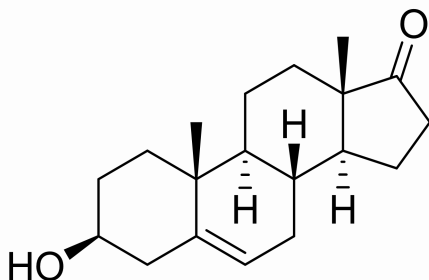
**Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method).

**Formulation:** Supplied as lyophilized form in PBS.

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Structural Formula:**



## **[ USAGE ]**

Reconstitute in sterile ddH<sub>2</sub>O.

## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.

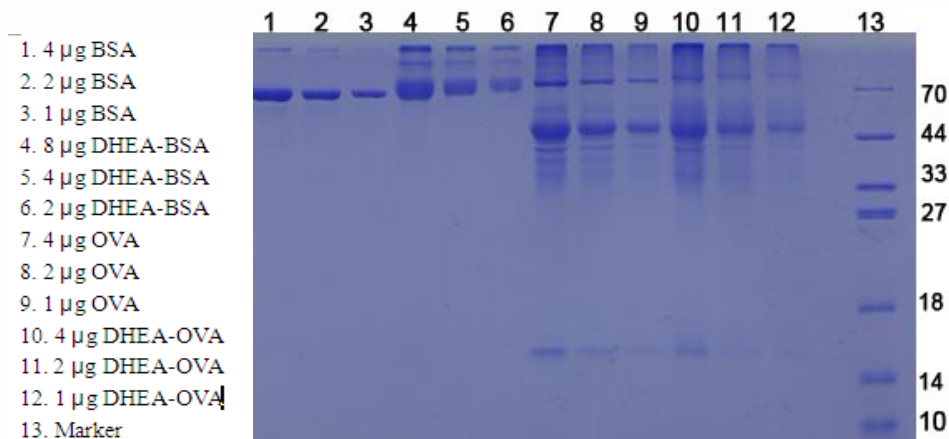
Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ PHYSICAL DESCRIPTION ]

White powder, Supplied as lyophilized form in PBS, pH 7.4.



From the picture of PAGE, we can see that, there is little differences between carrier protein and the conjugated product which is a little diffusion. Because Mol. Mass of molecular is too small that it can be almost ignored comparing to carrier protein. At the same time, one carrier protein can conjugate with different amounts of molecular, so it ends with diffusion phenomenon. All above show that, small molecule DHEA coupled with carrier protein successfully.

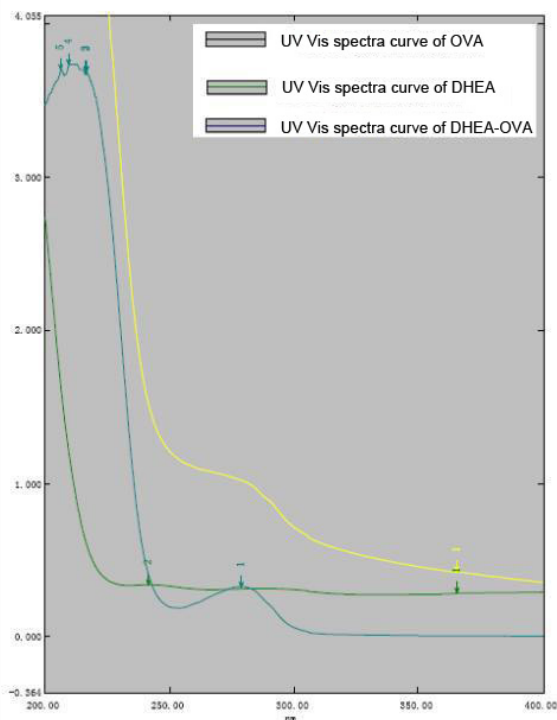


Figure A

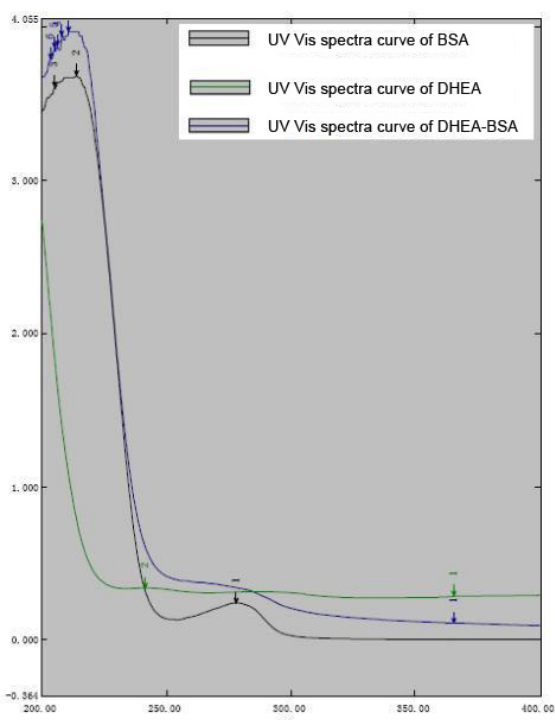


Figure B

Figure A: The picture clearly shows that UV Vis spectra of DHEA-OVA has an obvious change in 250-280nm compared to UV Vis spectra of OVA and DHEA, which illustrates the structure of conjugated product has great changes, and it means small molecular compound DHEA coupled with carrier protein successfully.

Figure B: The picture clearly shows that UV Vis spectra of DHEA-BSA has an obvious change in 250-280nm compared to UV Vis spectra of BSA and DHEA, which illustrates the structure of conjugated product has great changes, and it means small molecular compound DHEA coupled with carrier protein successfully.