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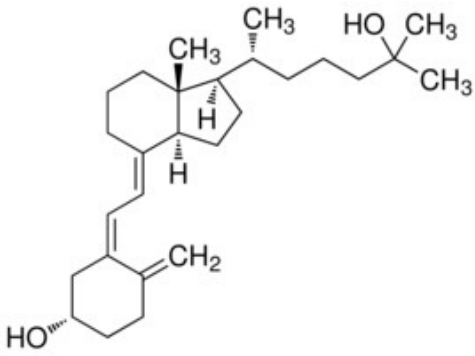
25-Hydroxyvitamin D3 (HVD3).OVA

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

5th Edition (Revised in January, 2013)

Structural Formula of HVD3



[DESCRIPTION]

Names: 25-Hydroxyvitamin D3 (HVD3).OVA

Synonyms: HVD3.OVA

Chemical Formula: $C_{27}H_{44}O_2$

Mol. Mass: 418.65 g/mol

Antigen: HVD3-OVA

Size: 10 mg

[PREPARATION INSTRUCTIONS]

Reconstitution with 2 mL of deionized water will yield a 5 mg/mL solution in 31 mM sodium phosphate buffer, pH 7.4, containing 0.46 M NaCl.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

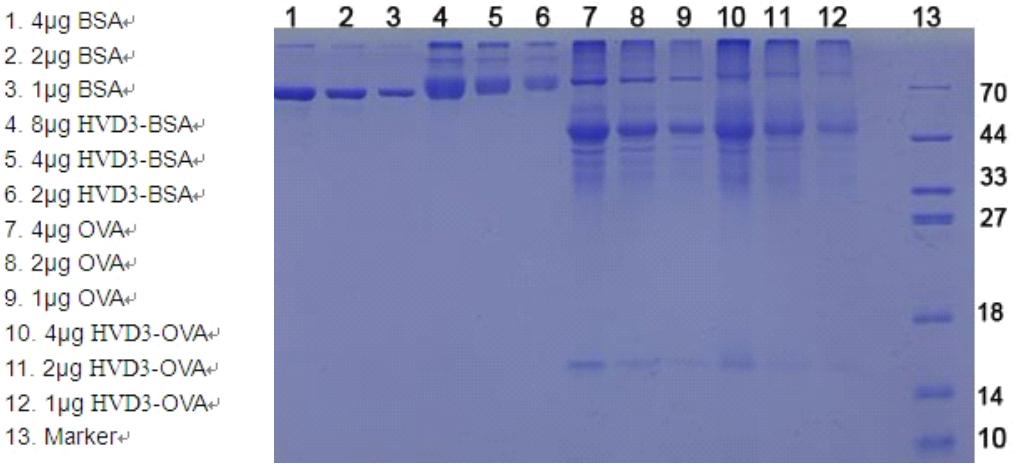
Store at 2-8°C for one month.

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.



We can judge from the diagram. There are small differences the SDS-PAGE of the coupling product and carrier protein. But the strip of coupling product is dispersive. Because the small molecular have very small molecular werght (M. W.), it can been neglected comparison to the carrier protein. Meanwhile, the number of small molecules were coupled to the carrier protein is not constant, so the strips is dispersive. Therefore, 25-Hydroxyvitamin D3 and the carrier protein coupled successful.

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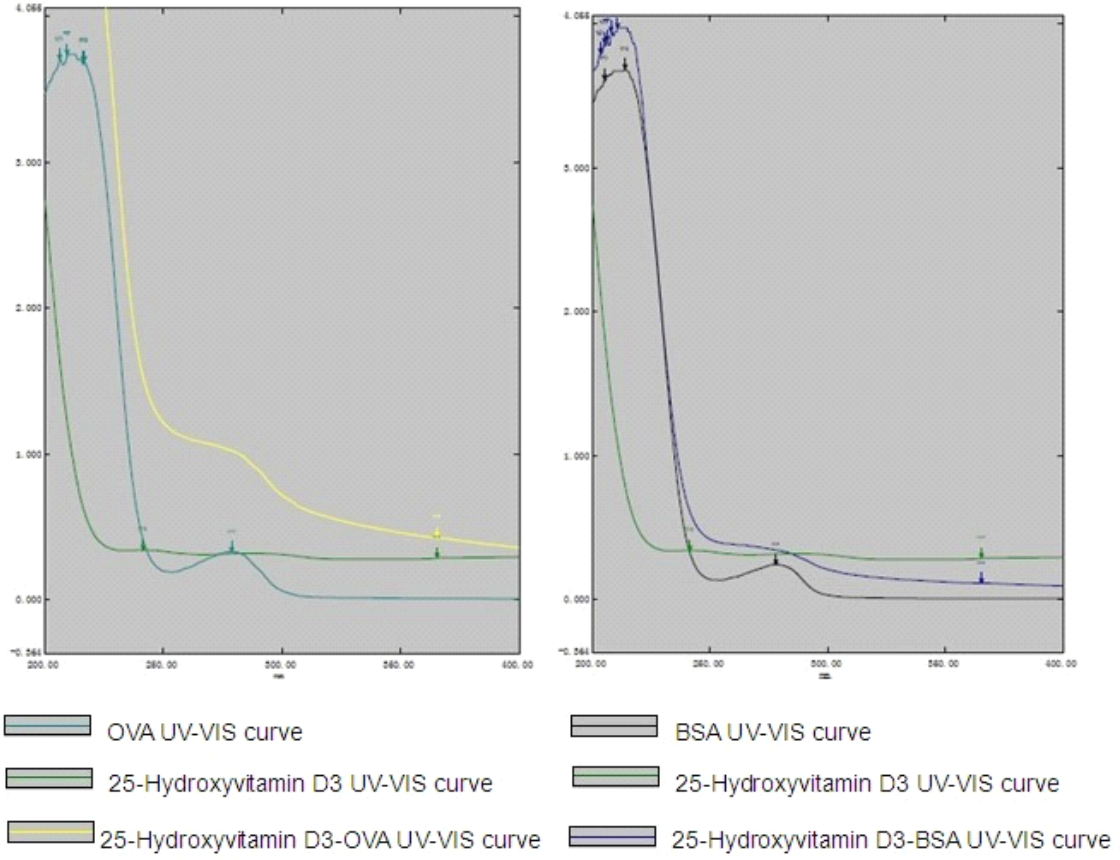

A B

Picture A: From the diagram shows, the UV-VIS spectrums have obvious change between 250-280 nm about OVA, 25-Hydroxyvitamin D3 and 25-Hydroxyvitamin D3-OVA. This shows that the coupling product, which was modified by chemical process, have changed significantly. Therefore, 25-Hydroxyvitamin D3 was coupled with the carrier protein successful.

Picture B: From the diagram shows, the UV-VIS spectrums have obvious change between 250-280 nm about BSA, 25-Hydroxyvitamin D3 and 25-Hydroxyvitamin D3-BSA. This shows that the coupling product, which was modified by chemical process, have changed significantly. Therefore, 25-Hydroxyvitamin D3 was coupled with the carrier protein successful.