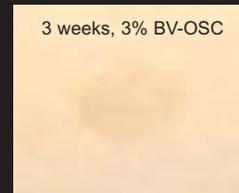
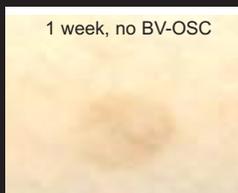


Barnet Products Corporation 140 Sylvan Avenue Englewood Cliffs NJ 07632  
Tel 201 346 4620 Fax 201 346 4333 Web barnetproducts.com

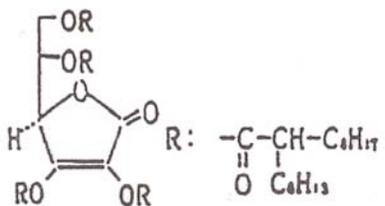
## BV-OSC

- Whitening - now tested *in vivo*
- Eliminates Age Spots
- Anti-Oxidant
- Collagen Synthesis & Protection
- DNA Protection



### DESCRIPTION

BV-OSC (Tetrahexyldecyl Ascorbate) is a stable, oil soluble form of Vitamin C.



### PROPERTIES

- \* BV-OSC at 0.1% reduces melanin synthesis by 80%.
- \* BV-OSC at 10% eliminates age spots in 16 weeks.
- \* BV-OSC at 3% *in vivo* reduces Delta-L value by 15% vs. placebo (22 people), a way to measure whitening effect
- \* BV-OSC at 0.1% *in vitro* increases collagen by 50%.
- \* BV-OSC tested at 10% *in vivo* to treat acne with 80% of patients (12 people) satisfied with results
- \* BV-OSC increases collagen synthesis at least twice as much as ascorbic acid.
- \* BV-OSC inhibits MMP-2 and MMP-9 over 3 times better than ascorbic acid.
- \* BV-OSC penetrates the skin 4 times better than Magnesium Ascorbyl Phosphate.
- \* BV-OSC delivers pure Vitamin C 50 times better than ascorbic acid.
- \* BV-OSC decreases 8-OHdG induced by UV-A.
- \* BV-OSC decreases p53 expression induced by UV-B.
- \* BV-OSC protects the cells against UV-B better than other esters of Vitamin C.
- \* **BV-OSC works synergistically with Thiotaine as both penetrate the cells for anti-oxidant activity.**

### FORMULATION

BV-OSC is a slight to pale yellow liquid with a faint characteristic odor. It is very soluble in ethanol, hydrocarbons, esters and vegetable oils. It is insoluble in glycerin and butylene glycol. BV-OSC should be added into the oil phase at temperatures below 80°C. It can be used in formulas with a pH range of 5.0 maximum. Use level is 0.5% - 3%. BV-OSC is approved as a quasi-drug in Korea at 2%, and in Japan at 3%.

### LEGISLATION

INCI Name: Tetrahexyldecyl Ascorbate      JSCI: 532297 (Ascorbyl Tetra 2-Hexyldecanoate)  
CAS: 183476-82-6      EINECS:

KOREA: Approved as a functional ingredient for whitening at 2%.

# BV-OSC

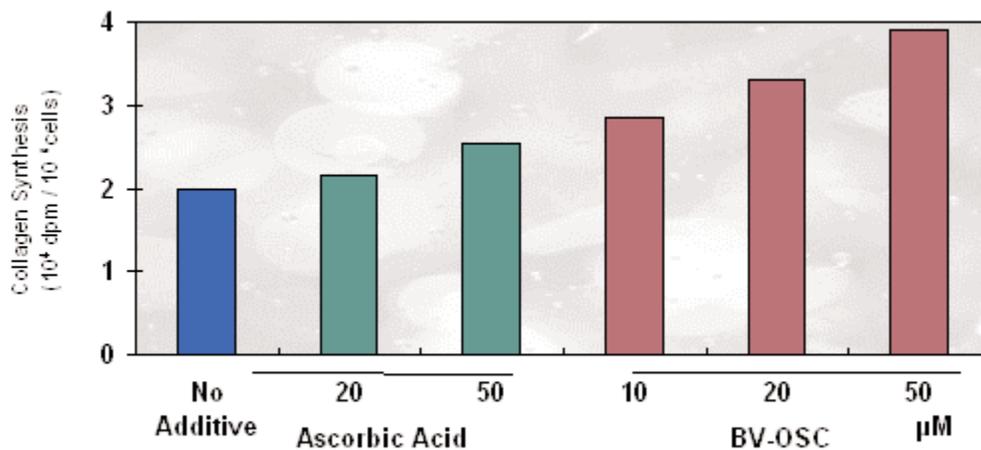
## BV-OSC ELIMINATES AGE SPOTS

BV-OSC at 10% concentration was applied to the skin of 10 people for a period of 16 weeks. Results (below) show that BV-OSC eliminated age spots.



## COMPARISON OF ABILITY FOR COLLAGEN SYNTHESIS

Proline involved in collagen synthesis was labeled by  $^3\text{H}$  and added to human dermal fibroblasts (NHDF) with various concentrations of BV-OSC/L-ascorbic acid and cultivated for 24 hours. Then collagen fractions were obtained. The amount of  $^3\text{H}$  taken into the collagen fraction was measured by using a liquid scintillation counter and slot blotter. As shown below, BV-OSC significantly promoted collagen synthesis.



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