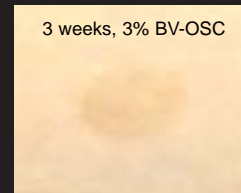


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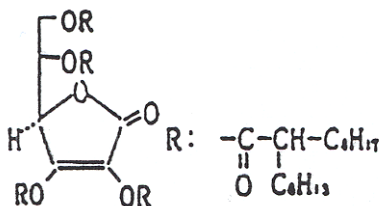
BV-OSC

- 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 3 to 6. BV-OSC can also be used at pH 7 in combination with chelating agents or antioxidants (guidelines are offered). Use level is 0.5% - 3%. BV-OSC is approved as a quasi-drug in Korea at 2%, and in Japan at 3%.

LEGISLATION

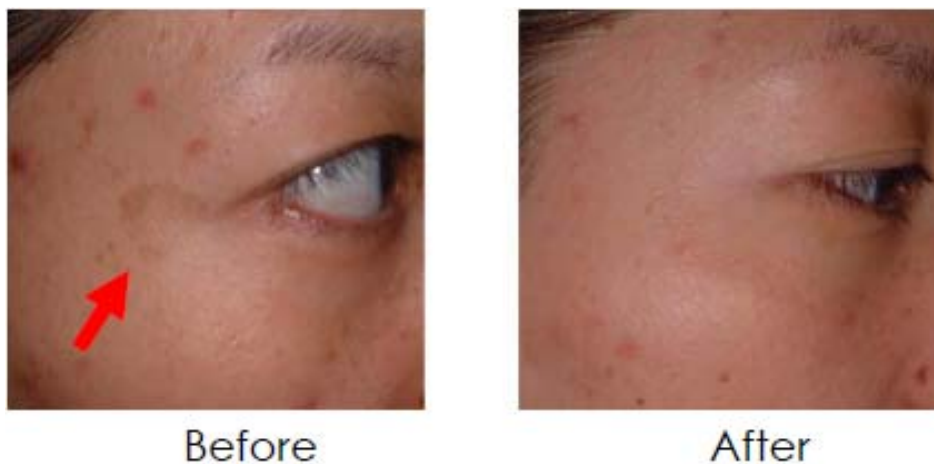
INCI Name: Tetrahexyldecyl Ascorbate JSCI: 532297 (Ascorbyl Tetra 2-Hexyldecanoate)
CAS: 183476-82-6 EINECS:

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 ^3H 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 ^3H 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.

