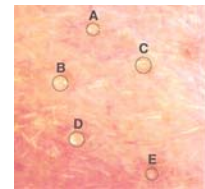


Barnet Products Corporation 140 Sylvan Avenue Englewood Cliffs NJ 07632  
Tel 201 346 4620 Fax 201 346 4333 Web barnetproducts.com



## Anti-Acne / Oil Control

Whether in teenagers or adults, acne and acne-like conditions can result from a number of causes such as sebum flow, indigenous cutaneous flora, decomposition of the sebum, and lipid peroxidation - all of which can be addressed by a "bouquet" of anti-oxidants, 5-Alpha Reductase inhibitors, and cutaneous ecovigilance. Mild cleansing and the proper deposition of active ingredients are of special value in anti-acne and oil control regimes.

### MILD CLEANSING

|               |  |
|---------------|--|
| <b>CMT-30</b> | Ultra mild surfactant with the unique ability to clean without stripping the lipid barrier. It has good foaming properties and is not sensitive to low pH or heat. |
|---------------|--|

### DEPOSITION OF ACTIVES

|                       |   |
|-----------------------|---|
| <b>PP-2 and PP-15</b> | When used at 3% (PP-2) or 1% (PP-15), deposition of Salicylic Acid into the upper layers of the skin is <b>increased</b> and penetration through the skin is <b>decreased</b> . |
|-----------------------|---|

### 5-ALPHA REDUCTASE INHIBITION / SEBUM CONTROL

|                             |   |
|-----------------------------|---|
| <b>Sebustop</b>             | Efficacious blend of plant fractions extracted from burnet roots, cinnamon bark and ginger rhizomes in a glycolic extract. These Chinese plant fractions have an astringent effect on sebum flow and are well suited for oily skin and anti-acne products (tested in vivo). Sebustop was developed in compliance with Japanese reference standards. |
| <b>Avocutine</b>            | Butyl Avocadate; in vitro testing at .01% shows 5-Alpha Reductase activity. For skin care, Avocutine reduces surface lipids on the skin, making the skin appear less greasy and less shiny. Tested at 2% for 3 weeks on 23 people with oily skin. 80% of the volunteers observed positive results.  |
| <b>Lichoalcone LR15 (A)</b> | Licorice fraction; a strong 5-Alpha Reductase Inhibitor. Intercepts DHT and androgen receptor combination. Inhibits lipase activity and controls P. Acnes.  |

### FLORA CONTROL

|                        |  |
|------------------------|--|
| <b>Myristidone (A)</b> | Tetradecyl PCA. Oil-soluble Myristidone inhibits P. acnes and improves skin smoothness.  |
| <b>BioEcolia</b>       | Oligosaccharide which promotes the growth of favorable flora at the expense of undesirable pathogens. BioEcolia assures cutaneous ecovigilance and protection. In addition to providing healthy ecology of the skin, a preliminary study demonstrates that BioEcolia will reduce sebum levels on the skin. |
| <b>Tamanu Oil</b>      | Polynesian oil obtained from the nuts of the dried fruit of the Tamanu, or "Ati" sacred tree of French Polynesia. Tamanu Oil is rich in Oleic Acid and Linoleic Acid. It is "traditionally" used for its wound healing and anti-inflammatory properties.   |

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## LIPASE INHIBITION TO CONTROL SEBUM DECOMPOSITION

|                         |   |
|-------------------------|---|
| <b>Lichoalcone LR15</b> | Nearly 100% inhibition of Lipase activity in vitro with 1,000 ppm (0.1%). |
|-------------------------|---|

## LIPID PEROXIDATION

|                    |  |
|--------------------|--|
| <b>BV-OSC</b>      | Tetrahexyldecyl Ascorbate; oil-soluble Vitamin C. Recommended for use in a pH range of 3.0-6.0. BV-OSC is a very efficient anti-oxidant, superior stability compared to pure Vitamin C.                              |
| <b>ADC Complex</b> | Optimized complex of Hibiscus, Pear Tree, Green Tea and Assafoetida. Tests show that ADC outperforms traditional anti-oxidants and anti-UV actives. In vivo tests at 3% shows that ADC Complex reduces micropeeling. |

## PCA DERIATIVES

|                   |  |
|-------------------|--|
| <b>Cuivridone</b> | Copper PCA; delivery vector and active. Copper for tyrosinase activation and PCA for moisturization in a photo-stable blue-green material. Reduces physiological sebum flux. |
| <b>Zincidone</b>  | Zinc PCA; delivery vector and active. Exhibits anti-seborrheic activity as a result of its 5-Alpha Reductase inhibition. Tested in vivo.                                     |

**(A) = FOR ACNE-PRONE SKIN**