



# Phytoplennolin®

US Patent #5,804,206

Phytoplennolin® is an extract from the Australian native plant known as *Centipeda Cunninghamii*. The plant has been used by Australian aborigines for many years and is highly regarded for its healing properties.

The active components in the extract (*Sesquiterpene lactones*) have shown to have outstanding **Cell Renewal, Anti-inflammatory and Anti Microbial properties**. Each delivers proven results for the fast and effective relief and treatment of skin conditions such as eczema, psoriasis, fungal infections of the feet, dermatitis, allergy rashes, windburn, sunburn or any dry skin complaint.

## TECHNICAL DATA

**INCI NAME:** Centipeda Cunninghamii Extract

**APPROVED FOR USE IN UNITED STATES AND AUSTRALIA**

**Stable In pH Range From 3.00-7.00**

**Completely Miscible With Water**

**Suggested Product Categories:** Sunscreens, Creams, Lotions, Bar Soaps, Mouth Rinses

**Recommended Use levels:** 0.1-1.0%

## PRODUCT DESCRIPTION

**Appearance:** liquid

**Color:** light brown to brown

**Aroma:** characteristic, aromatic

**Method of Assay:** HPLC

**Method of Manufacturing:** extraction by *\*Bio-Chelation®*

**Solvent for Extraction:** Aqueous alcohol

**Vehicle:** Butylene Glycol (CAS No. 107-88-0), USP Purified Water (CAS No. 7732-18-5)

**Recommended Storage:** store in a cool dry place, away from excessive heat or freezing temperatures

**Shelf Life:** 24 months unopened

## Specifications:

**RESIDUE:** <6.00% (16 hrs.@ 105°C)

**REFRACTIVE INDEX:** 1.3500-1.4500 (USPXXV <831>)

**SPECIFIC GRAVITY:** 1.0000-1.1000 (USPXXV <841>)

**pH:** 5.00 - 7.00 (USPXXV <791>)

**ASSAY:** >1.0% Sesquiterpene lactones

## MICROBIOLOGICAL: (USPXXV <61>)

**TOTAL AEROBIC PLATE COUNT (TAPC):** <600 C.F.U./gm

**COMBINED YEAST & MOLD COUNT (CYM):** <200 C.F.U./gm

**STAPHYLOCOCCUS AUREUS:** Negative

**E. COLI:** Negative

\*Bio-Chelation® is a registered trademark of Bio-Botanica®, Inc.  
Bio-Chelation® is a proprietary cold extraction process



BIO-BOTANICA® INC.



# Phytoplenolin®

## VITACELL™ SKIN CREAM FORMULA

| TRADE NAME                   | INCI NAME  | SUPPLIER                 | % LEVEL |
|------------------------------|--|--------------------------|---------|
| 1. DEIONIZED WATER           | WATER  |                          | 80.05   |
| 2. UNIVERSENE NA3            | TRISODIUM EDTA   | UNIVERSAL PRESERV-A-CHEM | 0.10    |
| 3. CARBOPOL ETD 2020         | CARBOMER   | NOVEON                   | 0.20    |
| 4. PROPYLENE GLYCOL          | PROPYLENE GLYCOL   | BRENNTAG                 | 2.00    |
| 5. UNIMINE TA99 NF           | TRIETHANOLAMINE  | UNIVERSAL PRESERV-A-CHEM | 0.20    |
| 6. BIOWAX 754                | DIMETHICONE COPOLYMER  | BIOSIL TECHNOLOGIES      | 0.20    |
| 7. LIGHT MINERAL OIL #70     | MINERAL OIL  | CITGO                    | 10.00   |
| 8. LIPOMULSE 165             | GLYCERYL STEARATE/PEG-100  | LIPO                     | 1.00    |
| 9. WHEAT GERM OIL            | TRITICUM VULGARE (WHEAT) GERM OIL                                  | FANNING CORP.            | 0.50    |
| 10. MEADOWFOAM SEED OIL      | LIMNANTHES ALBA (MEADOWFOAM) SEED OIL                              | FANNING CORP.            | 0.50    |
| 11. LIPOWAX NI               | CETEARYL ALCOHOL AND CETEATH-20                                    | LIPO                     | 0.50    |
| 12. STEARIC ACID             | STEARIC ACID   | LIPO                     | 2.00    |
| 13. PHENONIP                 | PHENOXYETHANOL AND METHYL, ETHYL, PROPYL, BUTYL, ISOBUTYL PARABENS | NIPA                     | 0.50    |
| 14. PHYTOPLENOLIN®           | CENTIPEDA CUNNINGHAMII EXTRACT                                     | BIO-BOTANICA®            | 0.75    |
| 15. CATS CLAW FLORACEUTICAL® | UNCARIA TOMENTOSA EXTRACT  | BIO-BOTANICA®            | 1.00    |
| 16. GREEN TEA FLORACEUTICAL® | CAMELLIA SINENSIS EXTRACT  | BIO-BOTANICA®            | 0.50    |

## PROCEDURE

|  |  |
|--|--|
| A. COMBINE FIRST 2 ITEMS, MIXING UNTIL EDTA IS DISSOLVED.                          | APPEARANCE: VISCOUS CREAM  |
| B. CONTINUE MIXING, SPRINKLE IN ITEM 3 AND MIX UNTIL UNIFORM AND LUMP FREE.        | ODOR: CHARACTERISTIC, NO FRAGRANCE ADDED   |
| C. ADD ITEMS 4-6 WHILE MIXING, THEN HEAT PHASE TO 80°C.                            | COLOR: LIGHT PINK  |
| D. PREMIX ITEMS 7-12 SEPARATELY, HEAT TO 75°C AND COMBINE WITH WATER PHASE.        | PH: 6.00- 7.00   |
| E. HOLD TEMPERATURE (75°-80°C) AND MIX 5-10 MINUTES, REMOVE HEAT, CONTINUE MIXING. | 24HR VISCOSITY: 85,000 - 105,000CPS<br>(BROOKFIELD DV 2: SPINDLE #4; 6 RPM; 60 SEC; @25°C) |
| F. ADD PHENONIP AT OR BELOW 40°C.  | SPECIFIC GRAVITY: 0.9800 - 1.0200  |
| G. ADD BIO-BOTANICA® EXTRACTS WHILE MIXING AT OR BELOW 35°C.                       |  |

Bio-Chelation® is a registered trademark of Bio-Botanica® Inc. Bio-Chelation® is a proprietary cold extraction process.  
Phytoplenolin® is free from preservatives

Note: The following suggested uses of botanicals are presented solely for their educational value. We cannot anticipate all conditions under which this information and our product, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for the results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with our products. Users are advised to make their own tests to determine safety and suitability of each such product or product combination of their own purposes. Unless otherwise agreed in writing, we sell products without warranty and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.



BIO-BOTANICA® INC.