

Derived from apples and the root bark of fruit trees including apple, pear, and grapefruit, phloretin is a broad-spectrum molecule newly identified for its antioxidant properties and recently studied for use as a pigment-regulating and penetration-enhancing agent in the medical community. Classified as a special family of flavonoids called dihydrochalcones, phloretin's unique carbonyl structure is responsible for particularly potent antioxidant activity in peroxynitrite scavenging and in the inhibition of lipid peroxidation. Additionally, it displays a wide range of bioactivities such as anticancer, antifungal, antibacterial, antiviral, and anti-inflammatory.

Phloretin CF™ represents a new class of preventive and corrective topical antioxidant treatment. This patent-pending breakthrough technology combines the broad-range power of phloretin with vitamin C and ferulic acid in a synergistic biodiverse formulation to divide and conquer sources of damage at every level of the skin. Phloretin CF™ is a broad-spectrum treatment that protects against not only free radicals, but the range of other reactive molecules known to cause damage and DNA mutations among the integral cell types.

In addition to preventing photodamage, it corrects existing damage by stimulating the synthesis of essential proteins and fibers and accelerating cell turnover. The result — a strengthened support structure on the inside and a more youthful, firm, radiant appearance on the outside.

FEATURES AND BENEFITS

Synergistic Antioxidant Combination / Broad-Spectrum Formulation

- prevents premature signs of aging and corrects existing photodamage, especially age spots and laxity
- divides and conquers the range of reactive oxygen species (ROS) throughout the skin
- facilitates cellular repair and maintains cell diversity
- reconstructs the skin's support structure
- boosts skin's natural immunity against DNA impairment to preserve cellular integrity and help prevent serious skin conditions like skin cancer
- provides significantly better results than any one antioxidant alone
- properly formulated with optimal concentrations at the precise pH to ensure maximum bioavailability

2% Phloretin

- neutralizes free radicals and suppresses radiation-induced oxidative reactions
- accelerates cell turnover
- inhibits UV-induced melanogenesis

10% L-Ascorbic Acid

- neutralizes free radicals and suppresses radiation-induced oxidative reactions
- prevents UV immunosuppression
- promotes collagen synthesis

.5% Ferulic Acid

- neutralizes free radicals and suppresses radiation-induced oxidative reactions
- inhibits UV-induced melanogenesis

USAGE AND RECOMMENDATIONS

- hyperpigmentation
- erythema
- uneven skin tone
- loss of elasticity
- mottled appearance
- photodamaged skin

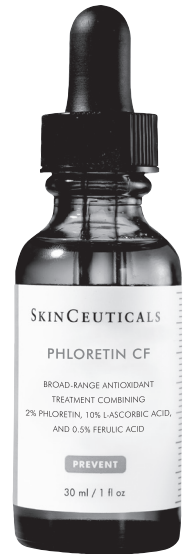
APPLICATION

Once daily using fingertips, apply 4-5 drops of Phloretin CF™ to face, neck, and chest.

PRODUCT LINKS

- Hydrating B₅ Gel
- Phyto + or Phyto Corrective Gel
- all SkinCeuticals sunscreens

NOTES



RETAIL SIZE

Size	30 ml
SKU #	32800



PROFESSIONAL SIZE

Size	55 ml
SKU #	32802

BACKGROUND

Lifestyle choices as well as daily exposure to environmental elements accelerate the aging process by causing highly reactive molecules in the skin. These unstable molecules produce damaging reactive oxygen species (ROS) such as free radicals, oxygen ions, and peroxides. Increased ROS levels can result in DNA mutations, preventing cell regeneration and leading to signs of photodamage including fine lines, wrinkles, loss of elasticity, discoloration, and even skin cancer. After repeated exposure to chemical and environmental elements, our skin becomes overloaded with ROS leading to multiple pathways of oxidative stress and serious damage to skin.

For over a decade, SkinCeuticals has offered a variety of antioxidant treatments to combat environmental damage caused by these reactive oxygen species. Through continuous research and development, we strive to provide the most comprehensive solution to prevent and correct photodamage caused by oxidative stress.

KEY INGREDIENTS

PHLORETIN

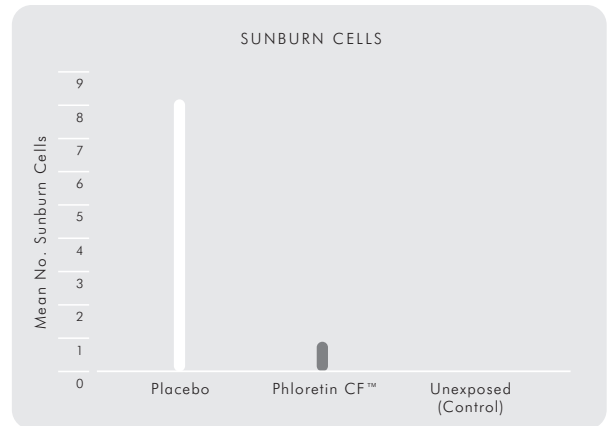
- comes from apples and the root bark of fruit trees including apple, pear, and grapefruit
- classified as a dihydrochalcone (special group of flavonoids) known to prevent immunosuppression and for anti-inflammatory, antifungal, and anticancer properties
- accelerates cell turnover
- suppresses radiation-induced oxidative reactions
- slows the degradation of collagen
- increases the production of elastin
- maintains the integrity of the extra cellular matrix
- inhibits UV-induced melanogenesis

L-ASCORBIC ACID (VITAMIN C)

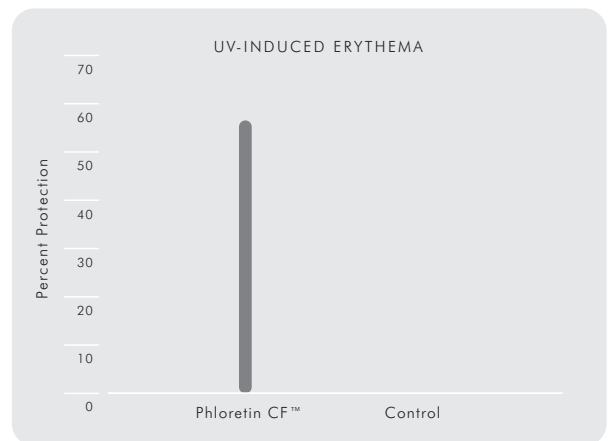
- water-soluble, chain-ending antioxidant essential for proper functioning of the human body
- inhibits UVA and UVB radiation-induced damage
- prevents UV immunosuppression
- promotes collagen synthesis
- regenerates vitamin E present in skin
- anti-inflammatory and anticancer properties

FERULIC ACID

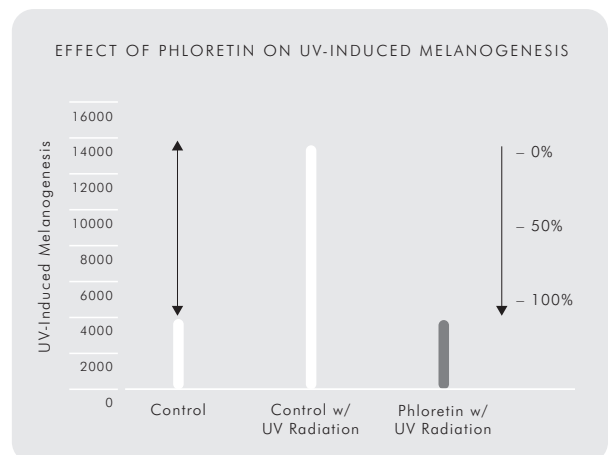
- ubiquitous plant antioxidant
- neutralizes free radicals known as "superoxide," "hydroxyl radical," and "nitric oxide"
- suppresses radiation-induced oxidative reactions
- anti-inflammatory properties
- easily absorbed by the skin
- inhibits UV-induced melanogenesis



In-vivo punch biopsy shows that Phloretin CF™ significantly reduces mean sunburn cell count vs. placebo when exposed to solar-simulated light.



In vivo, Phloretin CF™ provides a high level of protection against UV-induced erythema when exposed to solar-simulated light.



In vitro, the molecule phloretin inhibits UV-induced melanogenesis up to 100% compared to unprotected control.