

Skin'ential™ DC



INTERNATIONAL DEVELOPMENT AND MANUFACTURING

DESCRIPTION:

7-Dehydrocholesterol, also known as Provitamin D

INCI Name: 7-Dehydrocholesterol

CAS #: 434-16-2

Preservatives: Preservative free

INTEREST:

Skin'ential™ DC, naturally present in the skin, is a precursor of vitamin D₃ and cholesterol.

Under UV irradiation, **Skin'ential™ DC** is metabolized to vitamin D₃ in the skin, further converted to its active metabolite (calcitriol) for skin protection by:

- Improving barrier function
- Protecting against UV damages and senescence
- Stimulating natural antimicrobial peptides

CHARACTERISTICS:

Appearance: Off-white to yellow powder

Assay: ≥ 96% 7-Dehydrocholesterol

Also available: **Skin'ential™ DC 5DL** - 5% solution in octyldodecanol
Skin'ential™ DC 1ZM - 1% solution in corn oil

PHYSICO-CHEMICAL PROPERTIES:

Soluble in oils

Insoluble in water

USES:

Recommended use level: 0.01 to 0.1% of 7-Dehydrocholesterol

Applications: Dry, sensitive skin
Acne-prone and damaged skin
Age defying formulations

STORAGE:

Store in dry, well-ventilated area, away from direct light.

SAFETY:

Skin'ential™ DC has been tested and proven non-irritant.

Information related to safety procedures is available in the material safety data sheet.