



*Trifolium pratense L.*  
«Red Clover».

## *Isoflavones to address the needs of mature skin*

**Fonction:**

Fights signs of cutaneous ageing.  
Sterocare™ is specially designed for  
mature skin.

**Definition:**

Hydroglycolic extract of red clover flowers  
rich in isoflavones.

**Properties:**

Anti-wrinkle effect.  
Improvement of the thickness of the skin.  
Skin moisturising.

**Characteristics:**

Isoflavones are non-steroidal hormones.

**INCI Name:**

Trifolium pratense (Clover) Flower Extract –  
Glycerin –  
Butylene Glycol – Lecithin

**Applications:**

Anti-ageing cream for mature skin.

**Formulation:**

Water-soluble.  
Incorporate at room temperature or at  
45°C in the case of an emulsion.

**Recommended use level:**

3%

**Patents:**

WO 98/18927  
FR 2 769 502



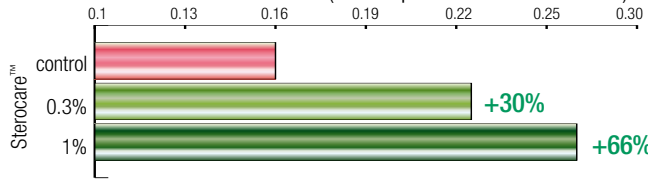
*Smoothing of the skin  
in just 1 month*



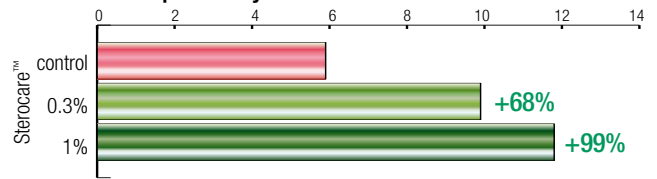
*In vitro* tests

Evaluation on culture of normal human fibroblasts 0,3 or 1% Sterocare™.

**Stimulation of cell metabolism** (cell respiration in mitochondria)



**Stimulation of protein synthesis**

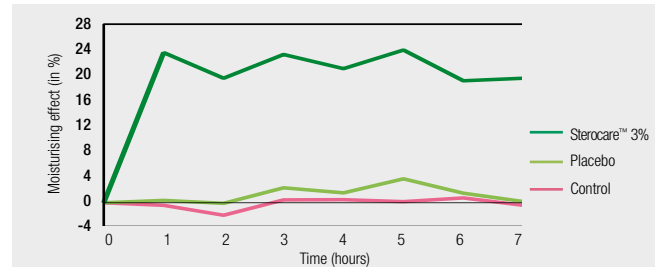


*In vivo* tests

● **Restoration of skin moisture**

13 volunteers, application of a gel containing 3% of Sterocare™ against placebo, measurements each hour for 7 hours with a corneometer.

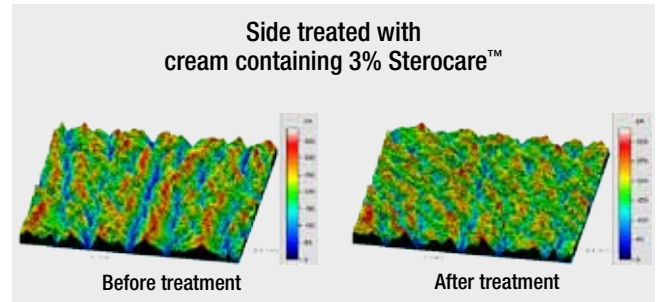
**Sterocare™ has a strong, stable and long lasting moisturising effect.**



● **Anti-wrinkle effect**

12 volunteers, twice daily application of a cream containing 3% Sterocare™ against placebo for 28 days, evaluation with image analysis of skin replicas.

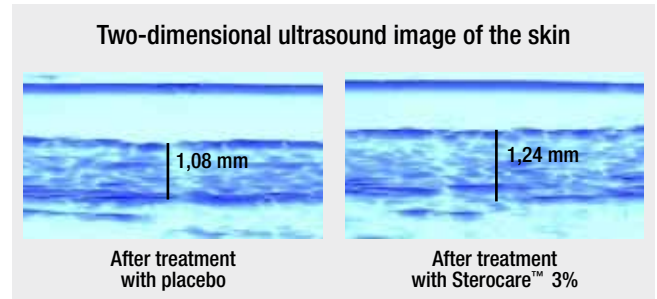
Improvement in wrinkle density ..... -37%, p<0.01  
 Main wrinkle depth ..... -18%, p<0.01  
 Wrinkle depth ..... -20%, p<0.01  
 Roughness ..... -19%, p<0.01



● **Skin repair**

8 volunteers, twice daily application of a cream containing 3% Sterocare™ against placebo for 28 days, evaluation of skin thickness with two-dimensional ultrasound image of the skin.

**Tissues regain strength and skin matrix is regenerated.  
 The skin layer thickness is significantly increased.**



Formulation

**Cream for Mature Skin with Sterocare™** Indicative formula ref: SED0008087B

<b>Part A</b> ..... %	DC 200 ( <i>Dimethicone, Dow Corning</i> )	2.00	
Ultrez 10 ( <i>Carbomer, BF Goodrich</i> )	0.25	Crodamol OSU ( <i>Diocetyl Succinate, Croda</i> )	7.00
Deionised water	qsp 100	Mixed Parabens	0.30
<b>Part B</b> ..... %		Span 60 ( <i>Sorbitan Stearate, Croda</i> )	0.40
Glycerin	3.50	<b>Part E</b> ..... %	
<b>Part C</b> ..... %		Potassium Sorbate 30%	0.35
Potassium Sorbate	0.10	Deionised water	3.50
<b>Part D</b> ..... %		<b>Part F</b> ..... %	
Brij S10 SO ( <i>Steareth 10, Croda</i> )	1.50	<b>STERO CARE™</b> ( <i>Sederma</i> )	3.00
Crodafos CES ( <i>Cetearyl Alcohol - Dicyetyl Phosphate - Ceteth-10 Phosphate, Croda</i> )	3.50		

**Protocol**  
 Part A : Disperse Ultrez 10 into water. Let swell for 20 minutes. Then add part B and part C. Heat to 75°C in waterbath. Homogenize. Weigh part D and heat to 75°C in waterbath. Homogenize. Pour part D into part (A+B+C) with stirring. Homogenize then neutralize with part E. Add part F extemporaneously at about 35°.

**Non-guarantee:** This formulation has been subjected to limited stability tests and has been shown to perform well. However formulators adopting this approach should ensure to their own satisfaction long term stability and functionality. It is good practice to conduct safety tests on all final formulations prior to marketing. Suggested uses should not be taken as an inducement to infringe any existing patents.

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