

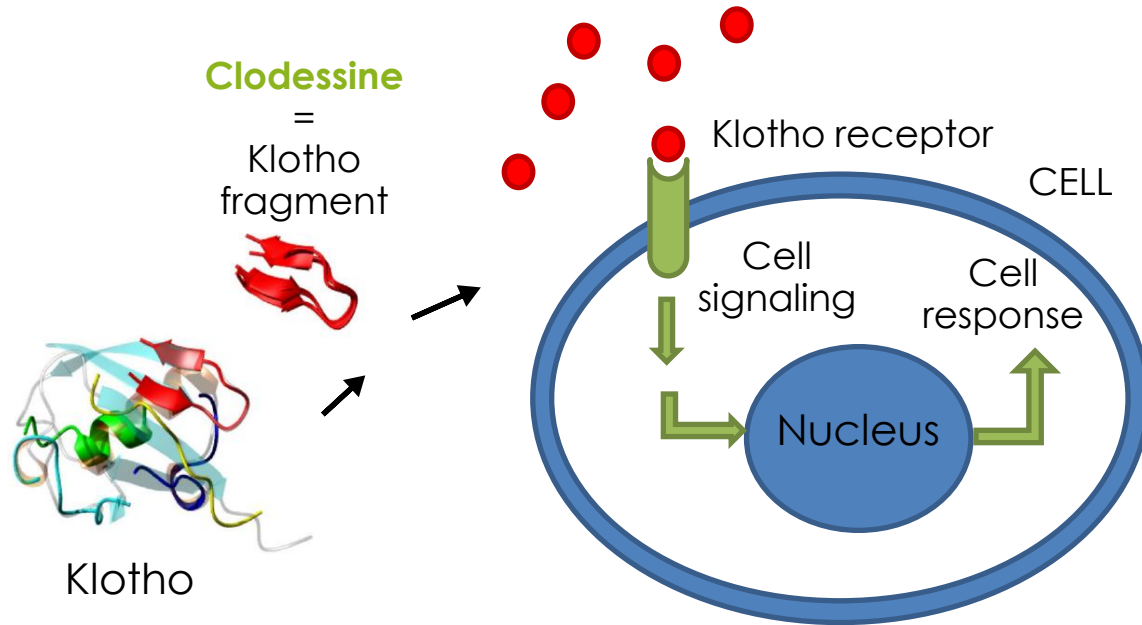
Clodessine

Fragment of natural human anti-ageing factor klotho
for **outstanding wrinkle reduction**

INCI: PHOSPHATE BUFFERED SALINE, SH-
NONAPEPTIDE-4, PHENOXYETHANOL (OR
PHENETHYL ALCOHOL)



Mechanism of action



Klotho signaling pathways

- Inhibits:
 - **Insulin receptor**
 - Insulin growth factor receptor
- Similar to calorie restriction
=> Increases SOD2/catalase (enzymes neutralizing ROS)
=> Increases energy production...

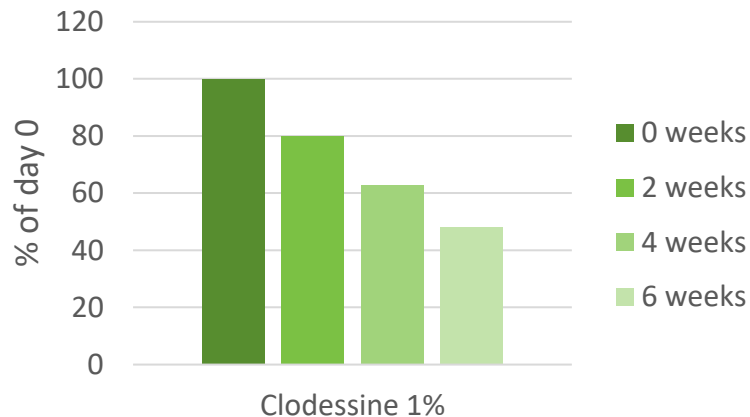


WRINKLE REDUCTION

52%

REDUCTION OF WRINKLES

In vivo study by Contipro



CLO (1%) in emulsion, face, 30 volunteers.
Wrinkles determined by 3D LiveViz camera

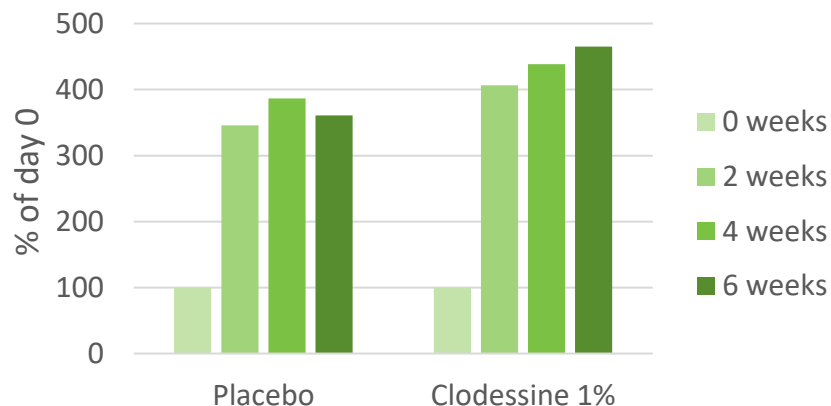


ELASTICITY

106%

ELASTICITY
IMPROVEMENT
compared to the placebo

*In vivo study by
Contipro*



CLO (1%) in emulsion, face, 30 volunteers.
R3 parameter determined by cutometer
(Courage and Khazaka electronics)

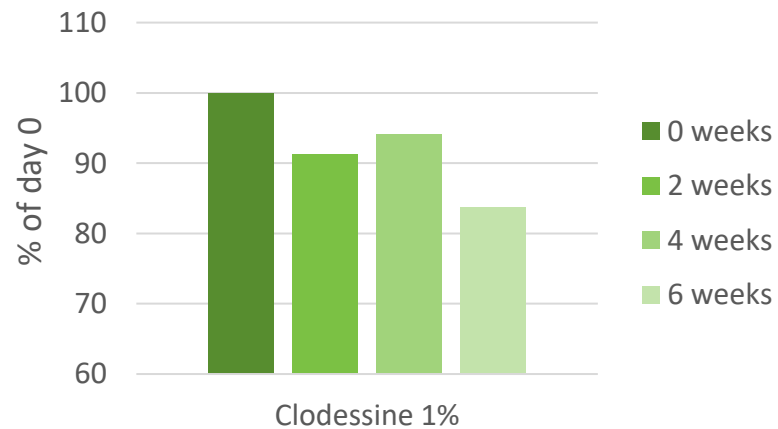


TEXTURE
IMPROVEMENT

16%

PORES REDUCTION

In vivo study by
Contipro



CLO (1%) in emulsion, face, 30 volunteers,
pore size determined by VisioFace 1000D

Before



Wrinkles reduction after 6 weeks of daily treatment with 1% Clodessine



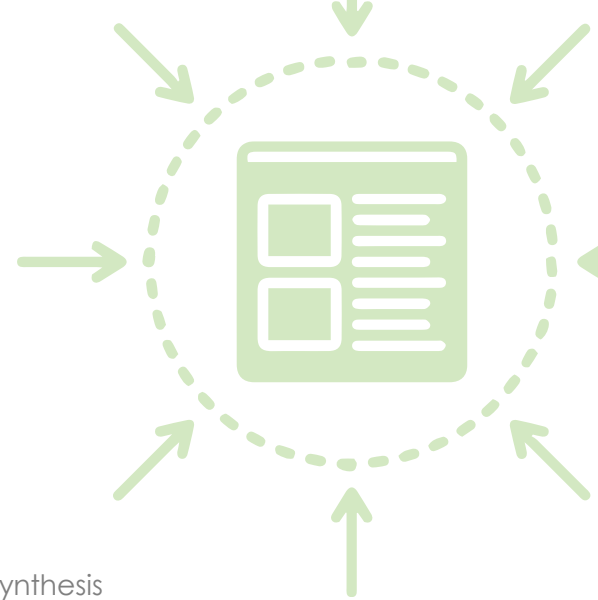
Additional advantages of Clodessine

- * Protects against premature aging caused by everyday stress
- * Prolong lifespan of the cells
- * Activate natural defensive mechanisms in the cells
- * Protect skin cells against environmental stress factors, pollutants and free radicals
- * Help to make DNA repair mechanisms in the skin cells more effective



Clodessine: Collected technical data

- **INCI name:** Phosphate Buffered Saline, sh-Nonapeptide-4, Phenoxyethanol (or Phenethyl Alcohol)
- **Supplied form:** solution in phosphate buffered saline (PBS) with HA (0,1% hexapeptide)
- **Preservative:** Phenoxyethanol/Phenethylalcohol
- **Samples:** 1 ml of solution
- **Minimal ordering quantity:** 1 kg
- **Recommended concentration in final products:**
0.01 – 1 % of solution
(safety tests up to 1%)
- **Source:** solid phase peptide synthesis
- **Compatibility and processing:** sensitive to heat; sensitive to extreme pH; recommended pH 5,5-8
- **Solubility:** soluble in water; soluble in mixture of ethylalcohol, isopropylalcohol, propyleneglycol and butylen glycol with water up to ratio 1:1; insoluble in non-water miscible solvents
- **Shelf-life:** 12 months



Who We Are

*World leader in research
and manufacturing
of hyaluronic acid.*

*Innovator in biotechnologies
since 1990.*

*Reliable partner of **successful
brands.***



We Are Here to Help You

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for active ingredients*

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