

NIANCE®  
SWITZERLAND

# SWISS GLACIER COMPLEX® Laboratory Test Report

National Authoritative Testing Institution: Cellular Test Report on  
the Swiss Glacier Complex®

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## Results of Cell Test Report by National Authoritative Testing Institution

This test uses immortalized human skin keratinocytes (HaCaT) as the research subject. The moisturizing effect and anti-wrinkle firming effect of the sample are evaluated by detecting the expression levels of Aquaporin 3 (AQP3) and Filaggrin (FLG) proteins through immunofluorescence technology and checking the changes in ROS content.

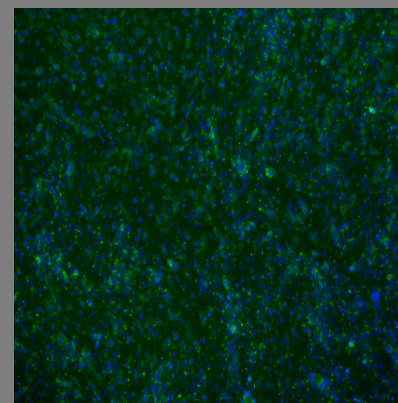
In the moisturizing test of the sample, based on immortalized human skin keratinocytes (HaCaT), 24 hours after the Swiss Glacier Complex sample interacted with the cells, at concentrations of 0.0156%, 0.0313%, and 0.0625% VM, the fluorescence of AQP3 and FLG proteins significantly increased. The increase rates of AQP3 were: 13.00%, 25.00%, 52.00%, and the increase rates of FLG were: 17.00%, 29.00%, 44.00%, showing a significant difference compared to the BC (possibly Blank Control) group ( $p < 0.05$ ). This suggests that the sample achieves a moisturizing effect at these concentrations by significantly enhancing the expression of AQP3 and FLG.

In the ROS content test of the sample, based on immortalized human skin keratinocytes (HaCaT), the Swiss Glacier Complex sample has certain improvements against the oxidative damage caused by UVB at concentrations of 0.0156%, 0.0313%, and 0.0625% VM, and the ROS content decreases. The relative clearance rates were: 81.56%, 86.52%, and 90.07%, showing a significant difference compared to the NC (possibly Negative Control) group ( $p < 0.01$ ). This suggests that the sample achieves anti-wrinkle and firming effects at these concentrations through the antioxidant pathway.

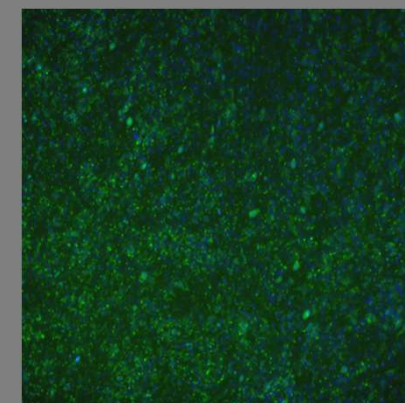
**"Swiss Glacier Complex® provides long-lasting moisturizing, restoring skin vitality, delaying skin aging, skin elasticity and gloss."**

The experimental results show that the Swiss Glacier Complex® can promote the increase of Aquaporin 3 (AQP3) expression in epidermal keratinocytes (HaCaT cells), thereby enhancing the vitality of keratinocytes.

Please note that "Aquaporin 3 (AQP3)" is a type of protein in the cells which is often associated with the transportation of water and glycerol, thus contributing to skin hydration. "HaCaT cells" are a line of human skin keratinocytes often used in dermatological research.



After 24 hours  
The NC group



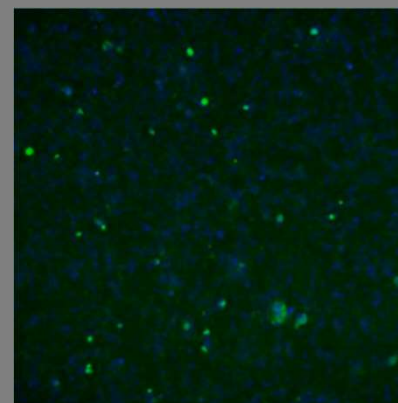
After 24 hours  
The Swiss Glacier Complex group

\*The results of in vitro testing research report on immortalized human epidermal cells indicate this.

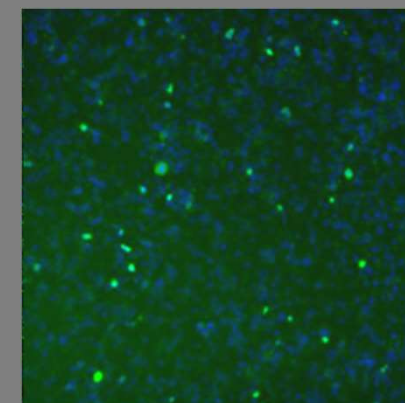
**" Swiss Glacier Complex® provides long-lasting hydration, promotes the secretion of hyaluronic acid, strengthens cell growth and repair, protects skin barrier."**

The experimental results show that the Swiss Glacier Complex® can promote the active expression of Filaggrin (FLG), increase the amount of amino acids in the stratum corneum, help the skin retain moisture, and enhance the skin's resistance.

Please note that "Filaggrin (FLG)" is a protein that plays a key role in skin health, particularly in skin hydration and the integrity of the skin's barrier function. The "stratum corneum" is the outermost layer of the skin.



After 24 hours  
The NC group



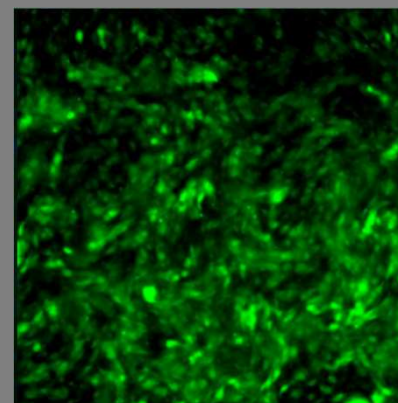
After 24 hours  
The Swiss Glacier Complex group

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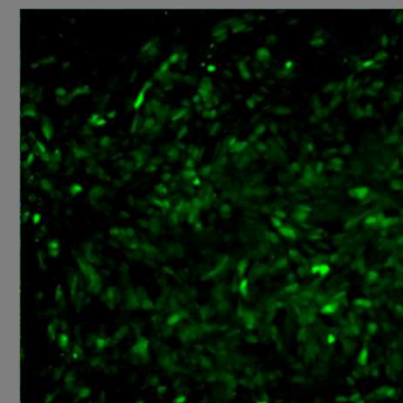
**"Swiss Glacier Complex® firms and combats wrinkles, defends against free radicals, promotes cell renewal, activates collagen and elastin."**

The experimental results show that the Swiss Glacier Complex® can promote the clearance of Reactive Oxygen Species (ROS), reduce oxidative stress, thereby reducing the expression of aging-related genes; and increase the expression of elastin and collagen.

Please note that "Reactive Oxygen Species (ROS)" are chemically reactive chemical species containing oxygen, which can damage cell structures and are often associated with aging and disease.



After 24 hours  
The NC group



After 24 hours  
The Swiss Glacier Complex group

\*The results of in vitro testing research report on immortalized human epidermal cells indicate this.

## The Ultimate Anti-Aging Complex: Swiss Glacier Complex®

Swiss Glacier Complex®, the core engine and soul of NIANCE skincare products, is made up of 4 powerful fundamental elements – Swiss Alpine glacier water, vitamin cocktail, complex of minerals and active substances from high Alpine plants. Swiss Glacier Complex® is like a stream of light poured into a bottle. It safeguards the well-being of the epidermis, stimulates cell renewal, delays the first signs of skin aging, and reactivates the skin’s own ability to regenerate and rejuvenate by stimulating the synthesis of collagen, hyaluronic acid and elastin. The skin becomes smooth, firm and youthful.

Thanks to the proprietary FERNESSE™ biotechnology that transforms Edelweiss, Thymus Vulgaris, Gentian Lutea Root, Buddleja Davidii and Borago Officinalis Seed oil by enzymatic activation, Swiss Glacier Complex® achieves the high performance of anti-aging but in an environmentally-friendly way, without the use of paraffins, parabens, mineral oils, sensitizers, microplastics, hormones and genetically modified ingredients. It is a vegan-friendly complex.

Swiss Glacier Complex® is the core revitalizing engine of NIANCE skincare products, composed of **four(4) potent active ingredients from the Alps, achieving comprehensive four (4) anti-aging effects: 24-hour long-term hydration and moisturizing, wrinkle reduction and prevention, and firming & lifting.**

### Swiss Alpine Glacier Water

+

### High Alpine Plant Extracts

+

### Vitamin Cocktail

+

### Mineral Complex

- ✓ Moisturizing and nourishing
- ✓ Revitalizes the skin
- ✓ Delays skin aging
- Enhances skin elasticity and luster

- ✓ Reduces DNA damage
- ✓ Releases growth factors
- ✓ Promotes cell renewal

- ✓ Fights free radicals
- ✓ Improves microcirculation
- ✓ Promotes the secretion of hyaluronic acid
- ✓ Activates collagen and elastin

- ✓ Enhances cell growth and repair
- ✓ Protects the skin barrier
- ✓ Firms and tightens the skin