AcquaCell - preliminary report

**DESCRIPTION**

AcquaCell is a natural complex combining watermelon rind extract, Lens Esculenta (Lentil) Fruit Extract and unripened apple and apple skin in an optimized delivery system. Watermelon rind is one of nature's few materials to contain citrulline. Citrulline is essential to the functioning of filaggrin which forms a critical part of the skin's own water based moisturizing complex. The lentil extract contains vitamin B5 and trisaccharides. The apple starch is a source of polysaccharides, sodium lactate and sodium PCA.

**PROPERTIES**

Tested on 20 subjects at 3%, AcquaCell provided 24 hours' skin hydration with one simple application and significantly reduced fine lines after 2 hours.

With one simple application, AcquaCell increased the cell membrane fluidity by 40%. Membrane fluidity is typical of young and healthy skin; the more unsaponifiables in the lipidic bilayer, the better. A diet based on meat increases saturated fatty acid supply and decreases the rigidity of membranes. Rigidity comes with aging.

AcquaCell upregulates filaggrin by 123% and AQP3 by 144%.

In two weeks at 3%, AcquaCell increased the water retained by corneocytes by 85%.

Tested for 2 weeks, AcquaCell dramatically increased key elements in the skin: Citrulline by 440%, Sodium PCA by 180%, Sodium Lactate by 60%. Moisture in the skin increased by 35%, dryness decreased by 60% and skin cohesion increased by 50%.

**FORMULATION**

AcquaCell is a slightly viscous clear gel with little or no odor. The suggested use level is 3%, to be added to the water phase.

**LEGISLATION**

INCI Name: Water & Glycerin & Citrullus vulgaris (Watermelon) Fruit Extract & Pyrus malus (Apple) Fruit Extract & Lens Esculenta (Lentil) Fruit Extract & Sodium PCA & Sodium Lactate


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**IMMEDIATE HYDRATION WITH ACQUACEll**

A single application of 3% AcquaCell (in a gel vehicle) provided 24 hours of skin hydration compared to placebo.

![Graph showing skin impedance DPM values](image)

**REDUCTION OF DRYNESS ON LEGS**

After 10 days, AcquaCell reduced flakiness in the skin (evaluation by dermatologists - score from 1 to 5) by over 60%.

![Graph showing AcquaCell reduces flakiness in the skin](image)

**ACQUACEll INCREASES KEY MOISTURIZING ELEMENTS OF THE STRATUM CORNEUM**

![Bar graph showing increase in key moisturizing elements](image)