

## **Hydration Potential**

info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

Tradename: AcquaSeal® Coconut

**Code:** 20742

**CAS #:** 8001-31-8

Test Request Form #: 211

Lot #: 57669P

**Sponsor:** Active Concepts, LLC; 107 Technology Drive Lincolnton, NC 28092

Study Director: Erica Segura

Principle Investigator: Maureen Danaher

#### **Abstract**

The purpose of this study is to determine the relative hydration potential of several materials which exhibit moisturizing properties through their respective water hold capacities. This study will demonstrate the hydration potential of 2.0% **AcquaSeal® Coconut** in comparison to some of its natural, synthetic, and animal-derived competitors.

#### **Materials and Methods**

Hydration Potential was measured according to the British Pharmacopoeia (BP) water absorption capacity method. Following this procedure, sample materials were placed separately into a mortar. Water was then incrementally added to the sample and mixed using a pestle. Samples, each tested at 2.0%, were considered to be saturated when no more water can be mixed into the emulsion. The point at which a sample is fully saturated is referred to as the terminal point. The water holding capacity was then calculated by dividing the weight of the sample after the terminal point has be reached by the initial sample weight and multiplying by 100 as is indicated in the below equation.

Water Holding Capacity (%) = (Weight of sample after terminal point is reached/Weight of Initial Sample) x 100

Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind. expressed or implied. other than that the material conforms to the applicable standard specification.



# **Hydration Potential**

info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

### Results

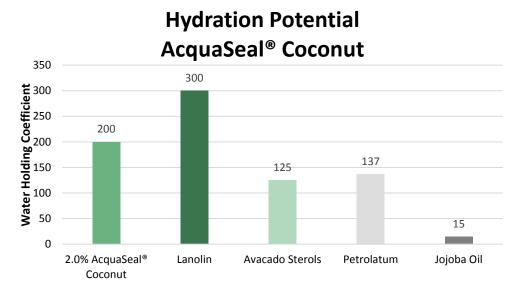


Figure 1. Hydration Potential Results

### **Discussion**

The results indicate that **AcquaSeal® Coconut** is an excellent all natural and botanical alternative to Lanolin as it is capable of holding 200% of its weight in water. Data analysis also reveals that compared to Avocado Sterols, Petrolatum, and Jojoba Oil, **AcquaSeal® Coconut** exhibited superior hydration potential with respective improvements in water holding capacity of 46%, 37% and 172%, respectively. These findings confirm that **AcquaSeal® Coconut** is useful in topical applications to effectively deliver moisture to the skin.

Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind. expressed or implied. other than that the material conforms to the applicable standard specification.