



Hydration Potential

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Tradename: ABS Acai Sterols EFA

Code: 10414

CAS #: 68990-51-2 & 60-33-3 & 112-80-1 & 463-40-1

Test Request Form #: 8728

Lot #: 8413900

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

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Principle Investigator: Kara Rivera

Test Performed:

Hydration Potential

Introduction

The purpose of this study was to determine the hydration potential of **ABS Acai Sterols EFA** 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 with a pestle. Samples 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 been reached by the initial sample weight and multiplying by 100 as indicated in the equation provided below:

$$\text{Water Holding Capacity (\%)} = \frac{\text{Weight of sample after terminal point is reached}}{\text{Weight of initial sample}} \times 100$$

Results

ABS Acai Sterols EFA showed high hydration potential compared to Lanolin, Avocado Sterols, Petrolatum, and Jojoba Oil.

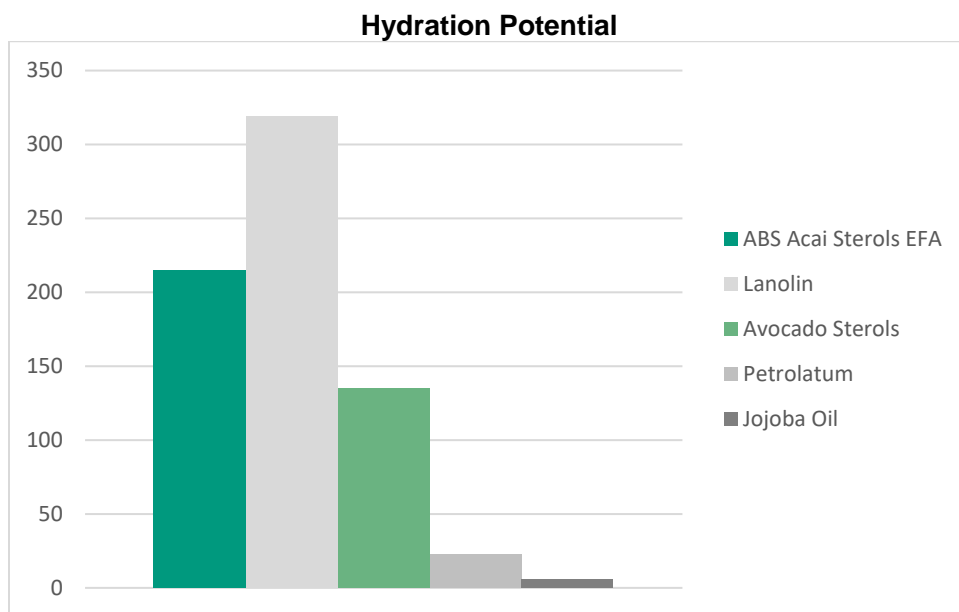


Figure 1. Hydration Potential Results

Discussion

The results indicate that **ABS Acai Sterols EFA** is an excellent all natural and botanical alternative to Lanolin as it is capable of holding 215% of its weight in water. Data analysis also reveals that compared to Avocado Sterols, Petrolatum, and Jojoba Oil, **ABS Acai Sterols EFA** exhibited superior hydration potential with respective improvements in water holding capacity of 59%, 847%, and 3607%. These findings confirm that **ABS Acai Sterols EFA** is useful in topical applications to effectively deliver moisture to the skin.