

# ABS Viola Tricolor Extract PF Long Term Hydration Capacity Assay

## Abstract:

The effects of **ABS Viola Tricolor Extract PF** on long-term effects epidermal hydration were studied using 2% in an emulsified lotion. The effects were measured with a Corneometer after the lotion was applied twice daily for 28 days. Test subjects consisted of 20 females between the ages of 37 and 62 years of age. The test site was a 5cm<sup>2</sup> region on the calves of the subjects.

## Materials and Methods:

The assay utilized 25 female subjects between the ages of 25 and 49 years of age with an average of 33 years. Inclusion in the assay was based on epidermal hydration levels of subjects being less than or equal to 65 is the numerical quantification for dry skin.

A CM 820 Corneometer (Courage & Khazaka, Germany) was used in the assay. The instrument consisted of a probe that quantitatively measured the electric capacitance of the skin based on the ability of intercellular water levels of the stratum corneum to conduct electrons. The following formulation was used in the study:

## Base Lotion Test Formula:

TRADE NAME	INCI	SUPPLIER	Percent (%)
Lanol 1688	Cetearyl octanoate	Seppic	5.0
Isopropyl Palmitate	Isopropyl Palmitate	-	5.0
ABS Viola Tricolor Extract PF	Aqua & Hydrolyzed Viola Tricolor Extract & Leuconostoc/Radish Root Ferment Filtrate	Active Concepts LLC	2.0
Sepigel 305	Polyacrylamide/C <sub>13-14</sub> Isoparaffin/Lauret-7	Seppic	2.0
Montanox 60	Polysorbate 60	Seppic	1.7
Sorbitan sesquioleate	Sorbitan sesquioleate	-	1.3
Leucidal® Liquid	Leuconostoc/Radish Root Ferment Filtrate	Active Micro Technologies LLC	4.0
Deionized Water	Aqua	-	q.s. 100

Two zones (5cm<sup>2</sup>) were measured on the calves and the hydration of the skin in each zone was determined based on 3 measurements per zone. 2µl/cm<sup>2</sup> of test formula was randomly applied and massaged into the area using a gloved finger. Each zone was treated with the test formula containing 2% **ABS Viola Tricolor Extract PF** or the placebo (Cetaphil Moisturizing Lotion). The hydration of the zones was measured after 14 and 28 days under conditions which included a room temperature of 22°C ± 2°C with a relative humidity between 40 and 60%. Results were obtained based on a ratio between the variations in hydration levels compared to the placebo.

## Results:

Treatment	Percent Increase in Hydration Day 14	Percent Increase in Hydration Day 28
2% ABS Viola Tricolor Extract PF (in Base Lotion)	15	20
Placebo (Cetaphil Moisturizing Lotion)	3	3

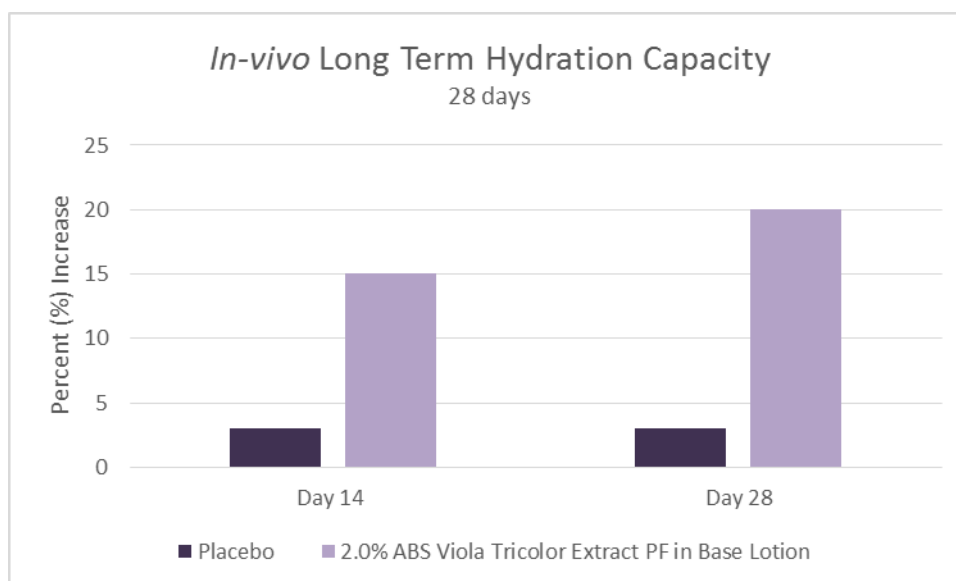


Figure 1: Skin hydration results when comparing 2% ABS Viola Tricolor Extract PF in base lotion to the Placebo.

## Discussion:

The results indicate that **ABS Viola Tricolor Extract PF** may be used to effectively hydrate the epidermis for an extended length of time. Compared to the placebo, **ABS Viola Tricolor Extract PF** is capable of hydrating the skin by more than 10% after a period of 14 days, and almost 20% after a period of 28 days.