# Sensory Analysis



sustainable powerful superfood functional active ingredient with elegant feel

anti-inflammatory film-former, moisturizing, Drote Gtant soothing, Wound nealing

### **ABSTRACT**

Sensory is a connection created between perception and the senses. Sensory analysis provides an opportunity for personal care products to capitalize on benefits before, during, and after application. Sensory properties can set a product apart in the marketplace and provide strong brand differentiation. Sensory experience may include the way a product feels and performs, even after application. Evaluations typically include sight, smell, and touch to differentiate between products or ingredients. Sensory attributes offer consumers an emotional link to experience luxury, calm, and relaxation on a daily basis.

**Phytofuse Rejuvenate®** capitalizes on the isolated polysaccharides extracted from the *Salvia hispanica* seed mucilage as a natural approach to protective and regenerative skin care. **Phytofuse Rejuvenate®** allows formulators to achieve multiple potent benefits for skin and hair utilizing a plant-derived material, revitalizing and repairing damaged skin while providing softening and emollient benefits for a luxuriant appearance. This unique ingredient also enhances sensory benefits when used in various formulations. This study was conducted to determine the ability of **Phytofuse Rejuvenate®** to offer sensory benefits in a skin care formulation.

An *in-vivo* sensory analysis evaluates the measurement, analysis, and interpretation of participant responses to various stimuli. The study determines any perceivable difference between a control lotion and a lotion sample containing 5.0% **Phytofuse Rejuvenate**°. In this single-blind study, participants were asked to quantify various sensory parameters for the control and experimental samples. Parameters included pick-up, cushion effect, slip, spreadability, drag, coverage, velvety after-feel, silky after-feel, tacky after-feel, and overall skin comfort. Parameters were scored subjectively by the participants and recorded for further analysis. Based on the results obtained, **Phytofuse Rejuvenate**° is capable of enhancing pick-up, cushion effect, spreadability,

# MATERIALS AND METHODS

This study included ten participants. Two samples were compared in this study, including a control Cetaphil lotion and a Cetaphil lotion containing 5.0% **Phytofuse Rejuvenate®** as the experimental sample. Samples of each material were placed on the participant's volar forearm.



Code Number: 16882

**INCI Name**: Salvia Hispanica

Seed Extract

INCI Status: Approved REACH Status: Complies CAS Number: 93384-40-8 EINECS Number: 297-250-8

TRF#: 5200

Lot Number(s): 60675P

Suggested Use Levels: 1.0 - 10.0%

**Use Level for Assay:** 5.0%

# **Sponsor:**

Active Concepts, LLC 107 Technology Drive Lincolnton, North Carolina 28092

**Study Director:** Maureen Danaher **Principle Investigator:** Kara Rivera

### **Suggested Applications:**

Wound Healing, Anti-Inflammatory, Film-Forming, Skin Care, Hair Care, Natural Cosmetics, Antioxidant

# Benefits of **Phytofuse Rejuvenate®**

- Anti-Inflammatory
- Wound Healing
- · Natural Film-Former
- Intense Antioxidant
- Pro-Collagen Synthesis

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# **Sensory Analysis**



Participants were asked to complete a survey rating the parameters on a scale of 1 to 10, with 1 being the lowest and 10 being the highest using the following parameters: pick-up, cushion effect, slip, spreadability, drag, coverage, velvety after-feel, silky after-feel, tacky after-feel, and overall skin comfort. Descriptions for each parameter were provided to the participants, ensuring a common baseline while strengthening the reliability of the data.

Parameters Tested	Definition Provided	
Pick-Up	Ability to pick-up product on finger	
Cushion Effect	When the movement of a product is lessened	
Slip	Ease of moving a product	
Spreadability	Ability to diffuse product over a surface	
Drag	Skin friction, light tug during application of product	
Coverage	Degree at which product covers skin	
Velvety	Powdery after-feel	
Silky	Smooth after-feel	
Tacky	Sticky after-feel	
Overall Skin Comfort	Feeling comfortable on the skin	

## **RESULTS**

Parameters Tested	Assessment of the Control Lotion	Assessment of the Experimental (5.0% Phytofuse Rejuvenate® in Control Lotion)
Pick-Up	1	7.65
Cushion Effect	2.3	6.7
Slip	7.1	6.9
Spreadability	4.7	6.9
Drag	1.9	2.1
Coverage	6.6	8.9
Velvety	1	1.4
Silky	5.4	8.5
Tacky	1	2.4
Overall Skin Comfort	6.05	9.4
Mean	3.705	6.085

**Chart 1.** Average results for participant's sensory assessment.

**Graph 1.** Rating of sensory characteristics following sensory assessment.

# Assessment of the Control Lotion Assessment of the Control Lotion Assessment of the Experimental (5.0% Phytofuse Rejuvenate\* in Control Lotion) Rejuvenate\* in Control Lotion)

**Assessment of Sensory Characteristics** 

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# Sensory Analysis



Parameters Tested	Percent Difference - Comparison of Control Lotion vs. Experimental (5.0% Phytofuse Rejuvenate® in Control Lotion)
Pick-Up	665.0%
Cushion Effect	191.3%
Slip	-2.8%
Spreadability	46.8%
Drag	10.5%
Coverage	34.8%
Velvety	40.0%
Silky	57.4%
Tacky	140.0%
Overall Skin Comfort	55.4%

Chart 2. Percent difference of sensory characteristics.

# **Sensory Analysis** Pick-Up Overall Skin Comfort Cushion Effect Tacky Slip Silkv Spreadability Velvety Drag Coverage

**Graph 2.** Sensory characteristic results for control and experimental samples.

# DISCUSSION

When comparing sensory attributes of the control to the experimental, the benefits of including 5.0% Phytofuse Rejuvenate<sup>®</sup> in a lotion are apparent. In relation to the control, the experimental lotion containing Phytofuse Rejuvenate® improved various parameters, including pickup, cushion effect, spreadability, drag, coverage, velvety after-feel, silky after-feel, tacky after-feel, and overall skin comfort by 665%, 191%, 46%,10%, 34%, 40%, 57%, 140%, and 55% respectively. It is clear in this study that Phytofuse Rejuvenate® helps create an added sensory element to finished formulas.



**Active Concepts, LLC** Lincolnton, NC. USA www. activeconceptsllc.com Office: +1 (704) 276 7100 info@activeconceptsllc.com

-Assessment of the Control Lotion

Active Concepts S.r.l. Milano ITALY www.activeconcepts.it Tel +39 02 90360719 info@activeconcepts.it

Active Concepts LLC, Asia Kaohsiung, Taiwan www.activeconceptsllc.com Tel + 886 73599900

Assessment of the Experimental (5.0% Phytofuse Rejuvenate® in Control Lotion)

Active Concepts Japan Tokyo, Japan www.activeconceptsllc.com Tel + 813 62311022 info@activeconceptsllc.com.tw info-tokyo@activeconceptsllc.com