



**ACTIVE MICRO**  
TECHNOLOGIES

# Product Formulary

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The prototype formulations developed in our laboratory serve as new product concepts that fit in line with modern consumer trends. Our line of innovative natural antimicrobials allows for formulating safe and clean cosmetics. Each of the formulations in this product formulary has been evaluated for stability and microbiological integrity. Antimicrobial challenge testing has been performed on every formulation listed in this document.

Antimicrobial challenge testing is a microbial evaluation of a formulation’s ability to prevent growth of microorganisms over a relatively long period of time in a finished formula. Active Micro Technologies’ lab adheres to the Personal Care Products Council (PCPC) Microbiological Guidelines and performs two month long double challenge tests. Initially, the formulation is inoculated with microorganisms and the decrease in the inoculum over time is recorded. After the first month, the product is re-inoculated and the same test is performed, ensuring a high degree of formulation integrity.

**Extensive Testing. Exceptional Results.** Inspire yourself with the formulas in our product formulary.

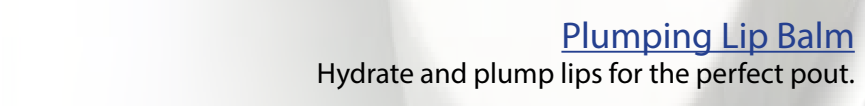
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# Body Cream

This luxurious body cream features intense moisturizing actives to help hold hydration in longer. Featuring Arborcide® OC, an organic compliant, naturally derived moisturizing antimicrobial. Recommended for all skin types, especially very dry skin. Keep skin moisturized, smooth, and beautiful with this Body Cream!

Trade Name	INCI Name	%	Vendor
Phase A			
Deionized Water	Water	78.6	Local
Phase B			
Glycerin	Glycerin	2.00	Spectrum Chemical
Keltrol® CG-SFT	Xanthan Gum	0.30	CPKelco
Phase C			
Phytomulse® Coconut	Cetearyl Alcohol & Glyceryl Stearate & Coceth-20	6.00	Active Concepts
AcquaSeal® Coconut	Cocos Nucifera (Coconut) Fruit Extract	6.00	Active Concepts
Biomimetic Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	4.00	Active Concepts
Organic Beeswax	Cera Alba	1.00	Frank B. Ross
Phase D			
Arborcide® OC	Leuconostoc Ferment Filtrate	2.00	Active Micro Technologies
Citric Acid (50%)	Citric Acid	0.10	Sigma Aldrich

**Manufacturing Procedure:**

1. Charge water into main beaker and begin propeller mixing. Begin heating to 75°C.
2. Premix Phase B, then add to main beaker when water reaches 75°C and mix until homogeneous.
3. In a separate beaker, combine Phase C ingredients and heat to 75°C while mixing. Mix until homogeneous.
4. Add Phase C to main beaker with high-speed mixing. Maintain temperature at 75°C and mix for 3 minutes.
5. Homogenize batch for 3-5 minutes. Begin force cooling.
6. At 45°C, add Phase D and mix thoroughly.

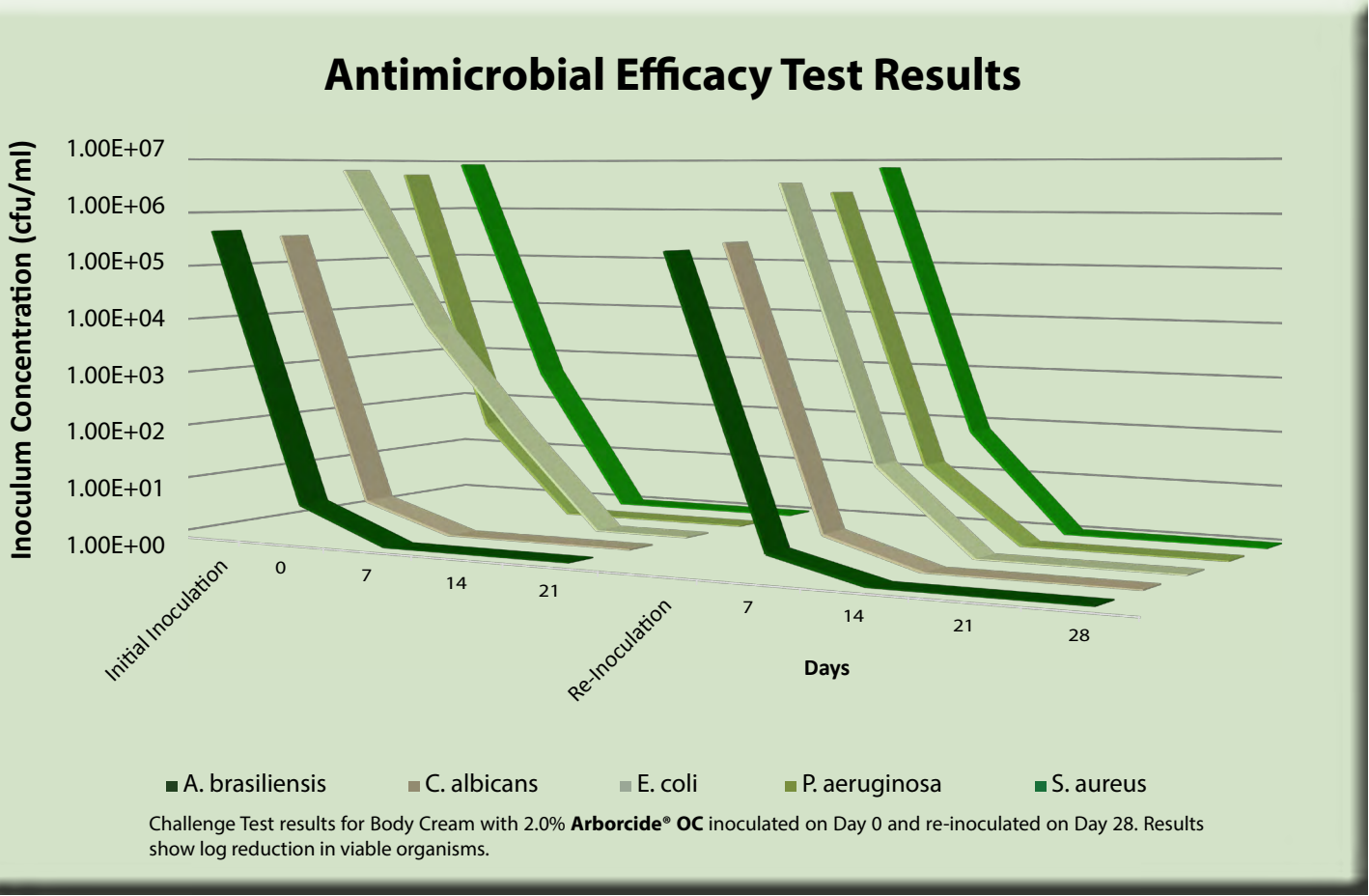
**Use Directions:**

Apply liberally to body.

**Specification Values:**

Appearance: White Emulsion  
pH-value: 5 - 5.5  
Viscosity (Brookfield: TF; Speed 10 rpm): 24000 - 30000 cps  
Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

**Microbiological Stability:** Proven.  
PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



# Clay Face Mask

Pamper, nourish, and revitalize with an amazing clay facial mask! Hydrating babassu, avocado and acai moisturize for lasting skin softness. Nutrient-rich vitamins, minerals, and fruit extracts reveal a fresh, rejuvenated complexion. Skin is healthy looking with a beautiful glow. Perfect for normal to combination skin.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Deionized Water	Water	6.75	Local
Glycerin	Glycerin	7.00	Spectrum Chemical
<b>Phase B</b>			
Neobee® M5	Caprylic/Capric Triglycerides	3.00	Stepan
Cetyl Alcohol	Cetyl Alcohol	3.00	Rita Corp.
AC Emulsifying Wax C20	Cetearyl Alcohol (and) Cetareth 20	5.00	Active Concepts
Cerasynt™ GMS	Glyceryl Stearate	4.00	Ashland
Varisoft® BT 85	Behentrimonium Chloride	3.00	Evonik
ACD Babassu Oil	Orbignya Oleifera Seed Oil	6.00	Active Concepts
Avocado Oil	Persea Gratissima (Avocado) Oil	3.00	Arista Industries
ABS Acai Sterols EFA	Euterpe Oleracea Sterols	5.00	Active Concepts
<b>Phase C</b>			
ABS Cats Claw Extract BG	Water (and) Butylene Glycol (and) Uncaria Tomentosa Extract	3.00	Active Concepts
ACB Modified Pumpkin Enzyme PF	Lactobacillus/Pumpkin Fruit Ferment Filtrate	3.00	Active Concepts
ACB Bio-Water Bamboo	Lactobacillus/Arundinaria gigantea Ferment Filtrate	6.00	Active Concepts
ACB Fruit Mix	Water & Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract & Acer Saccharum (Sugar Maple) Extract	6.00	Active Concepts
AC Vitamin ACE Liposome PF	Water (and) Phospholipids (and) Tocopheryl Acetate (and) Retinyl Palmitate (and) Ascorbyl Palmitate	3.00	Active Concepts
ACB Bio-Chelate MCZ	Water (and) Butylene Glycol (and) Saccharomyces Magnesium Ferment Extract (and) Saccharomyces Copper Ferment Extract (and) Saccharomyces Zinc Ferment Extract	3.00	Active Concepts
ACB Bamboo Bioferment PF	Lactobacillus/Arundinaria Gigantea Ferment Extract	10.0	Active Concepts
VANATURAL®	Bentonite Clay	17.0	Vanderbilt Minerals
<b>Phase D</b>			
Sodium Hydroxide (25%)	Sodium Hydroxide	0.25	Sigma Aldrich
<b>Phase E</b>			
Leucidal® SF Complete	Lactobacillus Ferment & Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	2.00	Active Micro Technologies

## Manufacturing Procedure:

1. Charge water into main beaker and begin propeller mixing. A vortex should form. Add glycerin and begin heating to 75°C.
2. Combine Phase B ingredients in a separate beaker and heat to 80°C. At temperature, add Phase B to main beaker and maintain temperature of 75°C.
3. Begin force cooling. In a separate beaker, combine Phase C ingredients. At 50°C, add Phase III ingredients.
4. Add sodium hydroxide.
5. Add Phase E.

## Use Directions:

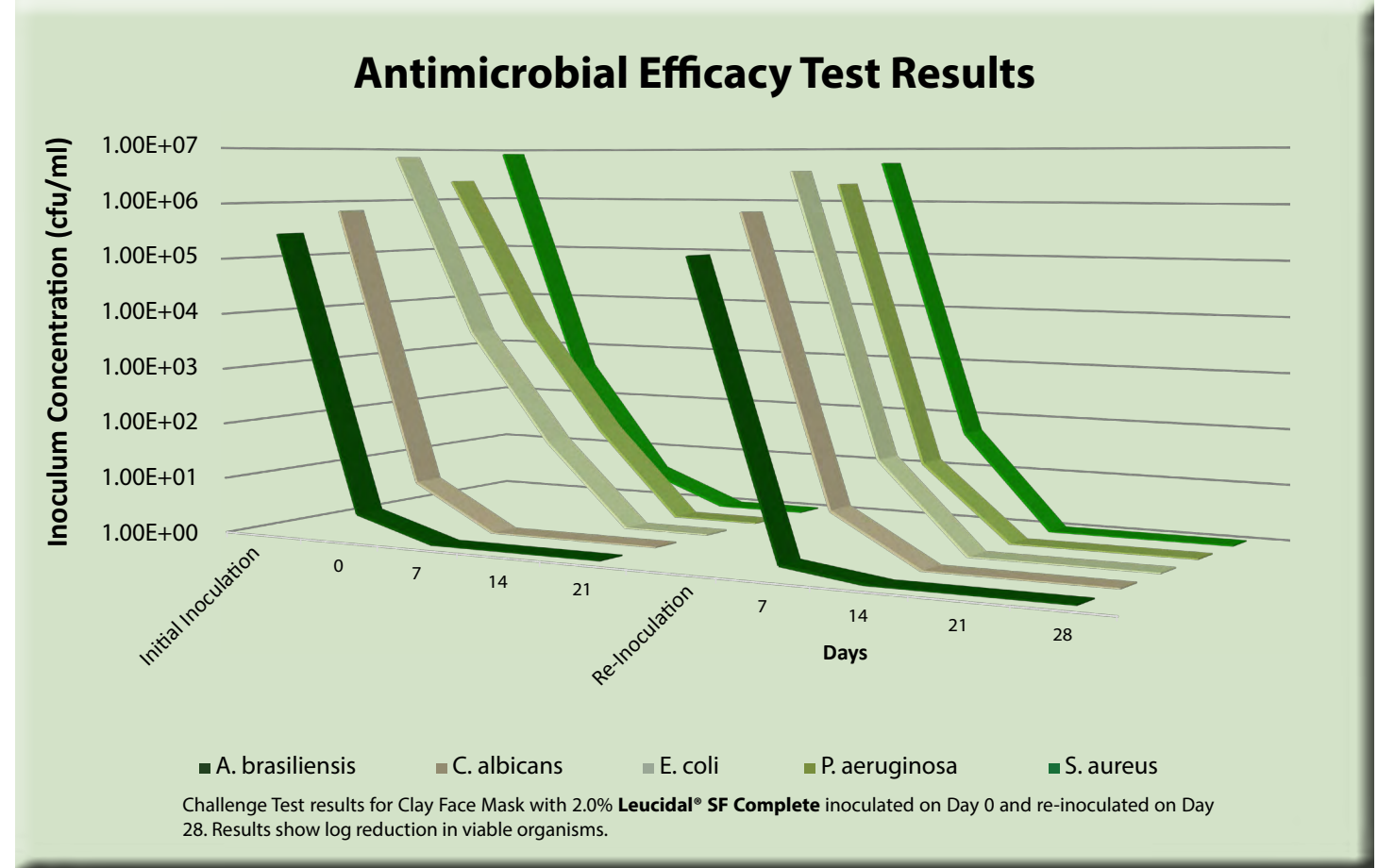
Apply mask to face and neck, avoiding contact with eyes. Let dry and rinse with warm water.

## Specification Values:

Appearance: Off-White Cream  
pH-value: 5.5 - 6.0  
Viscosity (Brookfield: TF; Speed 10 rpm): 60000 - 80000 cps  
Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

## Microbiological Stability: Proven.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.





# Cleansing Wipe Concentrate

Achieve clean, refreshed skin with this cleansing wipe concentrate. This gentle formula leaves skin feeling clean without the addition of perfumes, dyes, or harsh irritants. Gentle enough for every day use. Ideal for face and body. Naturally derived, moisturizing antimicrobials improve skin hydration and provide broad spectrum antimicrobial protection.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Deionized Water	Water	54.15	Local
Glycerin	Glycerin	8.00	Spectrum Chemical
Propylene Glycol	Propylene Glycol	2.50	Spectrum Chemical
Dipropylene Glycol	Dipropylene Glycol	1.50	Spectrum Chemical
GalSoft NaLS	Sodium Lauroyl Sarcosinate (30% active)	13.3	Tri-K Industries
STEPANOL® AM	Ammonium Lauryl Sulfate (28% active)	13.3	Stepan
Poly Suga® Quat L-1210P	Polyquaternium-80	0.25	Colonial Chemical
<b>Phase B</b>			
Mineral Oil	Mineral Oil	2.00	Spectrum Chemical
Stearyl Alcohol	Stearyl Alcohol	0.50	Rita Corp.
Cetyl Alcohol	Cetyl Alcohol	0.50	Rita Corp.
<b>Phase C</b>			
Leucidal® Liquid SF	Lactobacillus Ferment	2.00	Active Micro Technologies
AMTicide® Coconut	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	2.00	Active Micro Technologies

### Manufacturing Procedure:

- Disperse the Polyquaternium-80 in rapidly agitating, room temperature water. Allow to disperse completely. Once the polymer is dispersed, heat the solution to 60-65°C until clear.
- Add the sodium lauroyl sarcosinate, ammonium lauryl sulfate, glycerin, propylene glycol, and dipropylene glycol to the polymer solution, one at a time, in order, waiting for uniformity before adding the next. Heat the entire formulation to 60-65°C.
- In a separate container, combine ingredients of Phase B. Heat the ingredients to 60-65°C until the fatty alcohols are dissolved. At temperature, add the contents of Phase B to main with good agitation. Mix thoroughly while cooling at 45°C.
- Add Phase C ingredients to main container.

### Use Directions:

Impregnate cloths as desired.

### Specification Values:

Appearance: Milky White Liquid

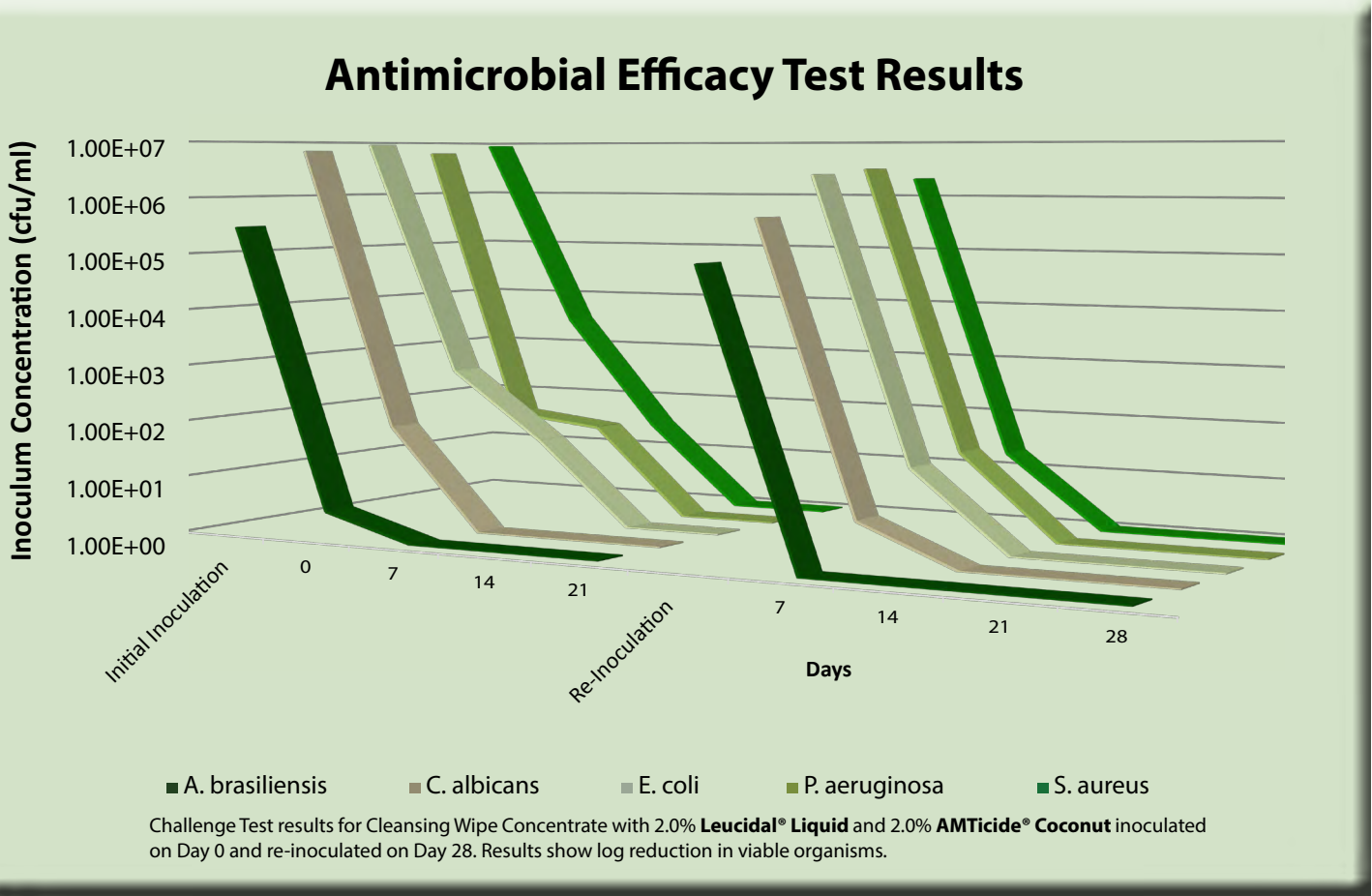
pH-value: 5 - 5.5

Viscosity (Brookfield: TF; Speed 10 rpm): 1- 10 cps

Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

**Microbiological Stability:** Proven. Testing performed on wipe concentrate.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



# Energizing Facial Serum

Revitalize, even skin tone, exfoliate, and supercharge to reveal and maintain healthy, glowing, youthful looking skin. A vitamin-enriched, lightweight facial serum that helps restore radiance and deliver much needed therapeutic benefits so skin can shine. Perfect for all skin types, especially problem skin.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Deionized Water	Water	22.8	Local
Dermofeel® PA-3	Sodium Phytate	0.20	Dr. Straetmans
AC Alg-Moist EAU	Water (and) Algae Extract	50.0	Active Concepts
Glucam™ E-20	Methyl Gluceth-20	1.00	Lubrizol
AC Soluble Collagen	Soluble Collagen	2.00	Active Concepts
AC DermaPeptide Revitalizing PF	Hydrolyzed Rice Protein	4.00	Active Concepts
Prorevive Blemish Balm Complex	Lactobacillus/Salix Alba Bark Ferment Filtrate	2.00	Active Concepts
AC Vitamin ACE Liposome PF	Water & Phospholipids & Tocopheryl Acetate & Retinyl Palmitate & Ascorbyl Palmitate	1.00	Active Concepts
ACB Fruit Mix	Water & Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract & Acer Saccharum (Sugar Maple) Extract	5.00	Active Concepts
ACB Lemon Balm Extract	Water & Melissa Officinalis Extract		
ABS Lemon Peel Extract	Water & Citrus Medica Limonum (Lemon) Peel Extract	1.00	Active Concepts
<b>Leucidal® Liquid SF</b>	<b>Lactobacillus Ferment</b>	<b>4.00</b>	<b>Active Micro Technologies</b>
<b>AMTicide® Coconut</b>	<b>Lactobacillus &amp; Cocos Nucifera (Coconut) Fruit Extract</b>	<b>2.00</b>	<b>Active Micro Technologies</b>

### Manufacturing Procedure:

1. Charge water into main beaker and begin propeller mixing. A vortex should form.
2. Add each ingredient individually and allow complete dispersion.

### Use Directions:

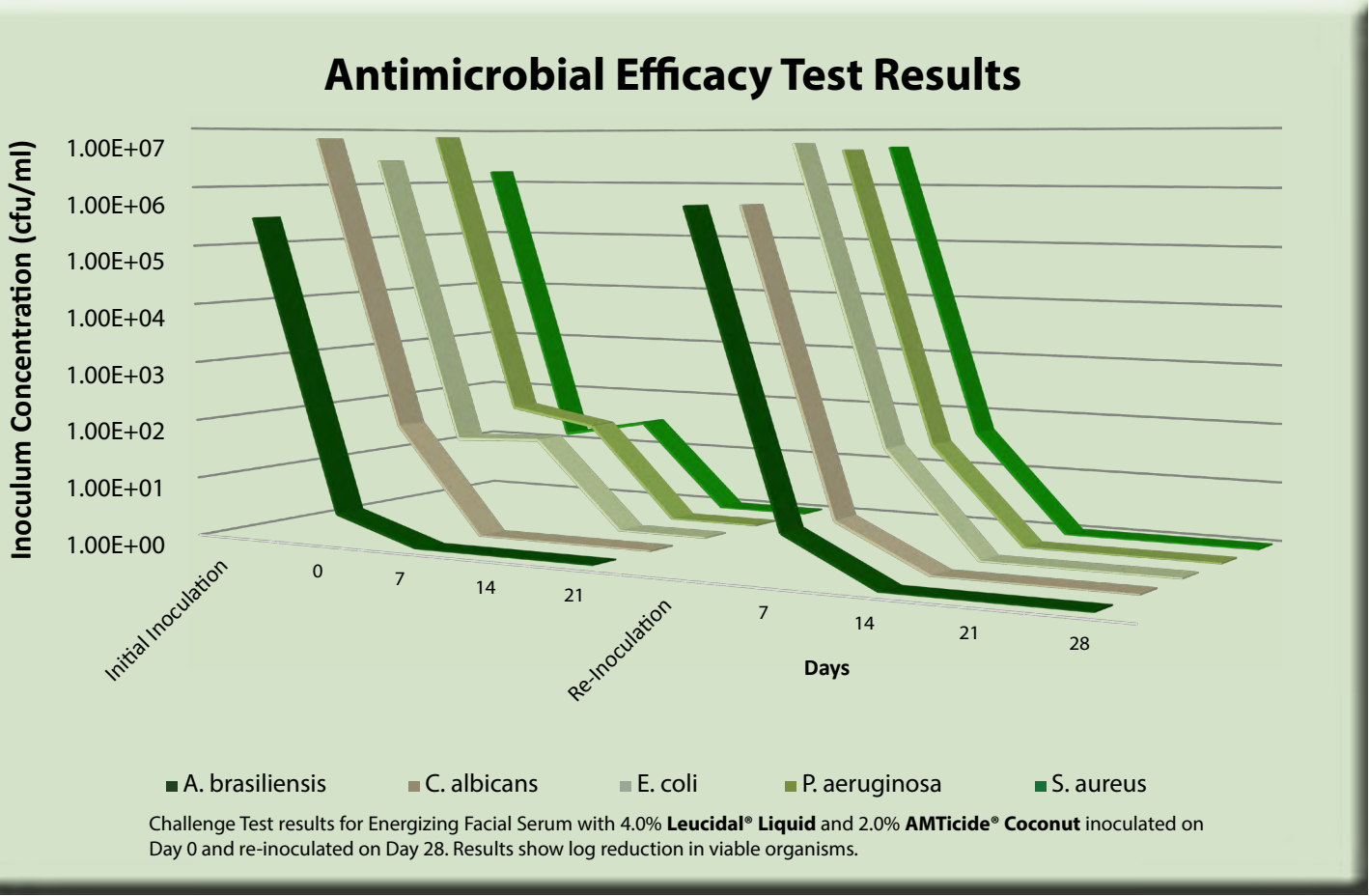
Apply a pea size amount to clean skin. May be used under a moisturizer or alone.

### Specification Values:

Appearance: Opaque Serum  
 pH-value: 5 - 5.5  
 Viscosity (Brookfield: TF; Speed 10 rpm): 1000 - 5000 cps  
 Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

### Microbiological Stability: Proven.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



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# Micellar Water

This gentle, refreshing micellar water is made with skin loving ingredients, including oat extract, to nurture and condition skin. Micelles capture and lift away dirt and oil like a magnet, revealing clean skin. Cleanse and moisturize in one simple step to leave skin feeling fresh and revitalized. Suitable for all skin types.

Trade Name	INCI Name	%	Vendor
Phase A			
Deionized Water	Water	85.5	Local
Purolan® PD	Pentylene Glycol	3.00	Lanxess Distribution
Glycerin	Glycerin	2.00	Spectrum Chemical
GalSoft® SCG	Sodium Cocoyl Glycinate	0.60	Tri-K Industries
Polymol® HE	PEG 7 Glyceryl Cocoate	0.90	Aqia
NeoDermyl®	Glycerin and Water and Methylglucoside Phosphate and Copper Lysinate/Prolinate	1.00	Induchem
ABS Oat Extract PF	Avena Sativa (Oat) Bran Extract	1.00	Active Concepts
Leucidal® Liquid SF	Lactobacillus Ferment	2.00	Active Micro Technologies
AMTicide® Coconut	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	2.00	Active Micro Technologies

**Manufacturing Procedure:**

- 1. Charge water into main beaker and begin propeller mixing.
- 2. Add remaining ingredients individually while stirring. Mix until homogeneous.

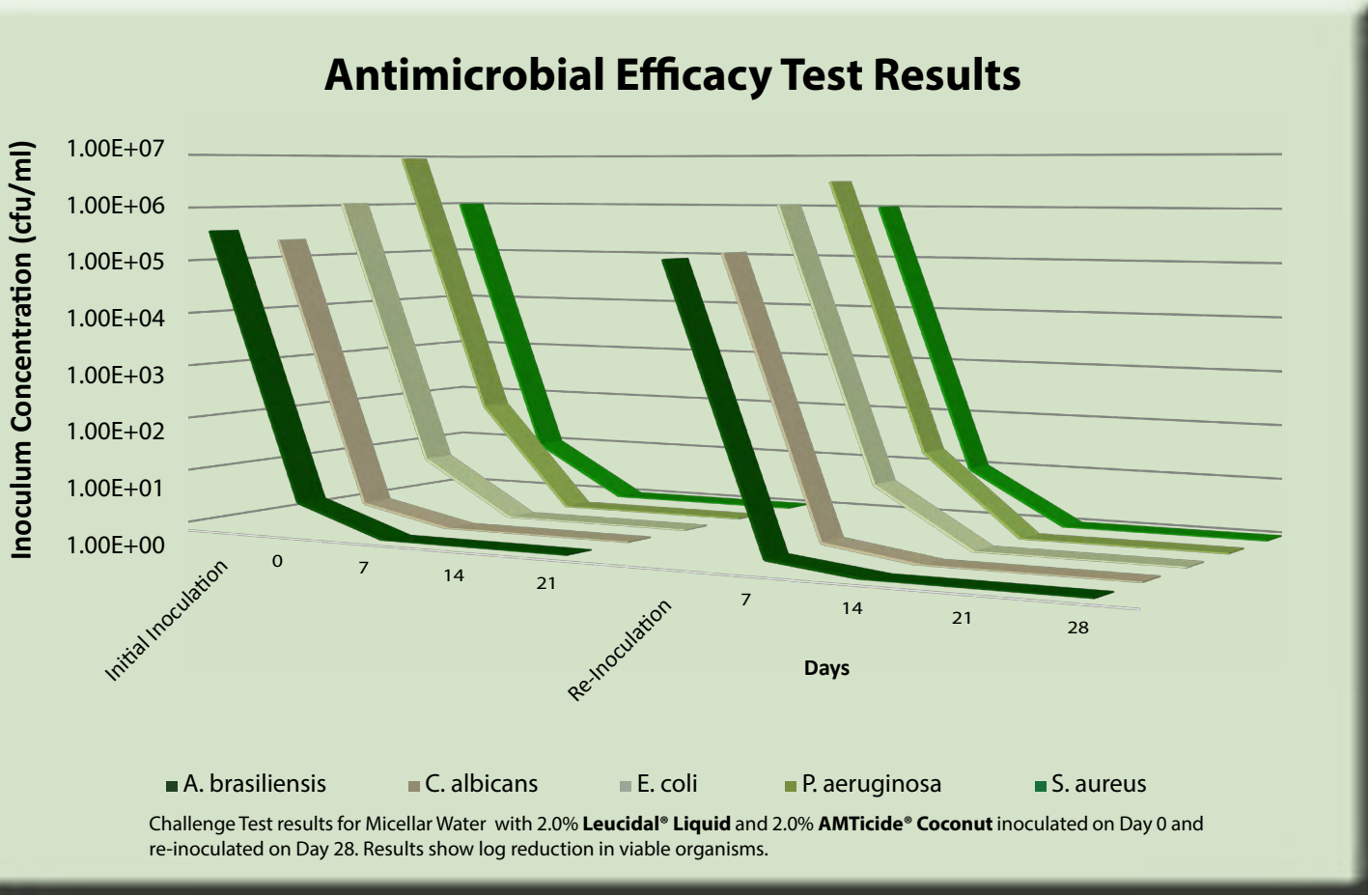
**Use Directions:**

Apply a generous amount to a cotton pad. Wipe the cotton pad all around the face.

**Specification Values:**

Appearance: Clear, Colorless Liquid.  
pH-value: 5 - 5.5  
Viscosity (Brookfield: TF; Speed 10 rpm): 1- 10 cps  
Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

**Microbiological Stability:** Proven.  
PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



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# Moisturizing Cleanser

Gently cleanse and remove dirt and oil without drawing away needed moisture. The unique ingredients in this Moisturizing Cleanser help to revitalize and maintain the skin's natural protective function, keeping skin looking and feeling healthier. Suitable for all skin types.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Deionized Water	Water	51.9	Local
<b>PhytoCide Black Currant Powder</b>	<b>Ribes nigrum (Black Currant) Fruit Extract</b>	<b>2.00</b>	<b>Active Micro Technologies</b>
<b>Phase B</b>			
STEPAN-MILD® LSB	Sodium Lauryl Sulfoacetate (and) Disodium Laureth Sulfosuccinate	20.95	Stepan
AMPHOSOL® HCG	Cocamidopropyl Betaine	10.0	Stepan
NINOL® 40-CO	Cocoamide DEA	4.00	Stepan
<b>Phase C</b>			
ABS Cucumber Extract PF	Water & Cucumis Sativus (Cucumber) Fruit Extract & Propylene Glycol	5.00	Active Concepts
AC DermaPeptide Revitalizing PF	Hydrolyzed Rice Protein	3.00	Active Concepts
AC Quaternized Rice Shine PF	Hydroxypropyltrimonium Rice Protein	1.00	Active Concepts
ABS White Orchid Milk	Water & Phalaenopsis Amabilis Extract	0.05	Active Concepts
<b>Phase D</b>			
Sodium Hydroxide (25%)	Sodium Hydroxide	0.60	Sigma Aldrich
Sodium Chloride	Sodium Chloride	1.50	Sigma Aldrich

## Manufacturing Procedure:

1. Charge water into main beaker and begin propeller mixing. A vortex should form. Sift in PhytoCide Black Currant Powder and begin heating to 75°C. Mix until homogeneous.
2. Switch to sweep mixing. At 75°C, add each Phase B ingredient individually. Allow each ingredient to disperse completely before adding the next. Begin force cooling.
3. Pre-mix Phase C ingredients in a separate vessel. When main beaker reaches 45°C, add Phase C ingredients and mix until homogeneous.
4. Add sodium hydroxide and mix until homogeneous.
5. Add sodium chloride and mix until homogeneous.

## Use Directions:

Apply desired amount of wash to loofah or bath sponge. Massage into skin for generous lather and then rinse with water.

## Specification Values:

Appearance: Dark Yellow, Hazy Viscous Liquid.

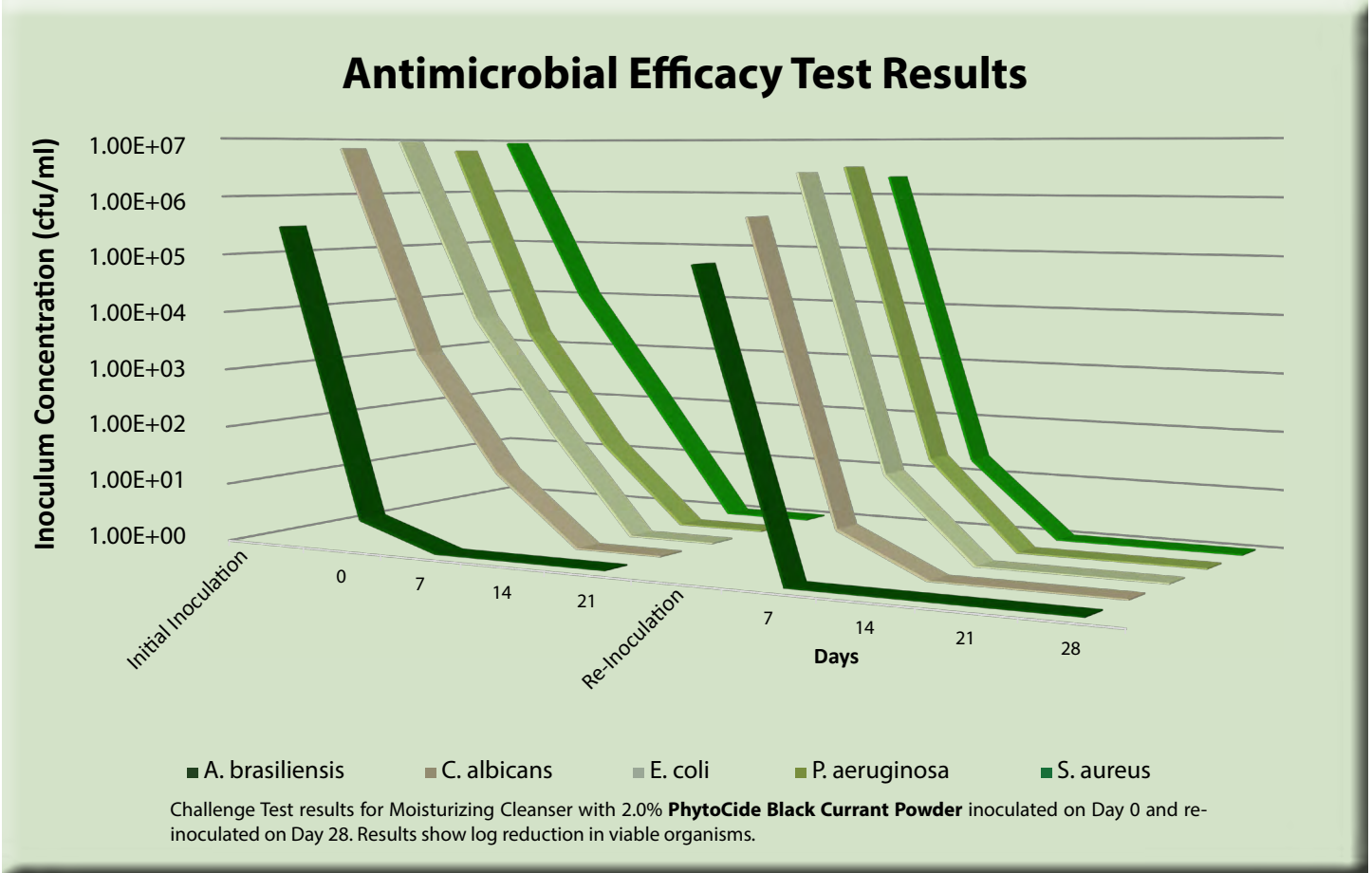
pH-value: 4.9 - 5.2

Viscosity (Brookfield: TF; Speed 10 rpm): 1000 - 5000 cps

Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

## Microbiological Stability: Proven.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.





# Yogurt Body Wash

Indulge in rich lather while cleansing, hydrating, and nourishing skin. Yogurt Body Wash nourishes skin naturally with the conditioning power of yogurt. This Yogurt Body Wash is the perfect shower companion for every day skin cleansing. Leaves skin feeling soft, clean, and cared for.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water	24.1	Local
Dermofeel® PA-3	Sodium Phytate	0.20	Dr. Straetmans
<b>Phase B</b>			
STEOL® CS 130	Sodium Laureth Sulfate	30.0	Stepan
STEPAN-MILD® LSB	Sodium Lauryl Sulfoacetate & Disodium Laureth Sulfosuccinate	18.0	Stepan
AMPHOSOL® CA	Cocamidopropyl Betaine	10.0	Stepan
Chembetaine™ CAS	Cocamidopropyl Hydroxysultaine	5.00	Lubrizol
<b>Phase C</b>			
AC Foaming Rice PF	Sodium Cocoyl Hydrolyzed Rice Protein	3.00	Active Concepts
ACB Yogurt Extract	Water & Yogurt Extract	5.00	Active Concepts
<b>Phase D</b>			
Leucidal® Liquid	Leuconostoc/Radish Root Ferment Filtrate	2.00	Active Micro Technologies
AMTicide® Coconut	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	2.00	Active Micro Technologies
<b>Phase E</b>			
Crothix™ Liquid	PEG-150 Pentaerythrityl Tetrastearate & PEG-6 Caprylic/ Capric glycerides & Water	0.45	Croda

## Manufacturing Procedure:

1. Charge water into main beaker and begin propeller mixing. A vortex should form. Begin heating to 70°C. Add Dermofeel®PA-3 and mix.
2. Switch to sweep mixing. Once temperature has reached 70°C, add each Phase B ingredient individually. Continue mixing for 15 minutes.
3. Begin force cooling. At 50°C, add each Phase C ingredient individually. Mix until homogeneous.
4. At 45°C, add each Phase D ingredient individually to main.
5. Add Phase E. Mix thoroughly.

## Use Directions:

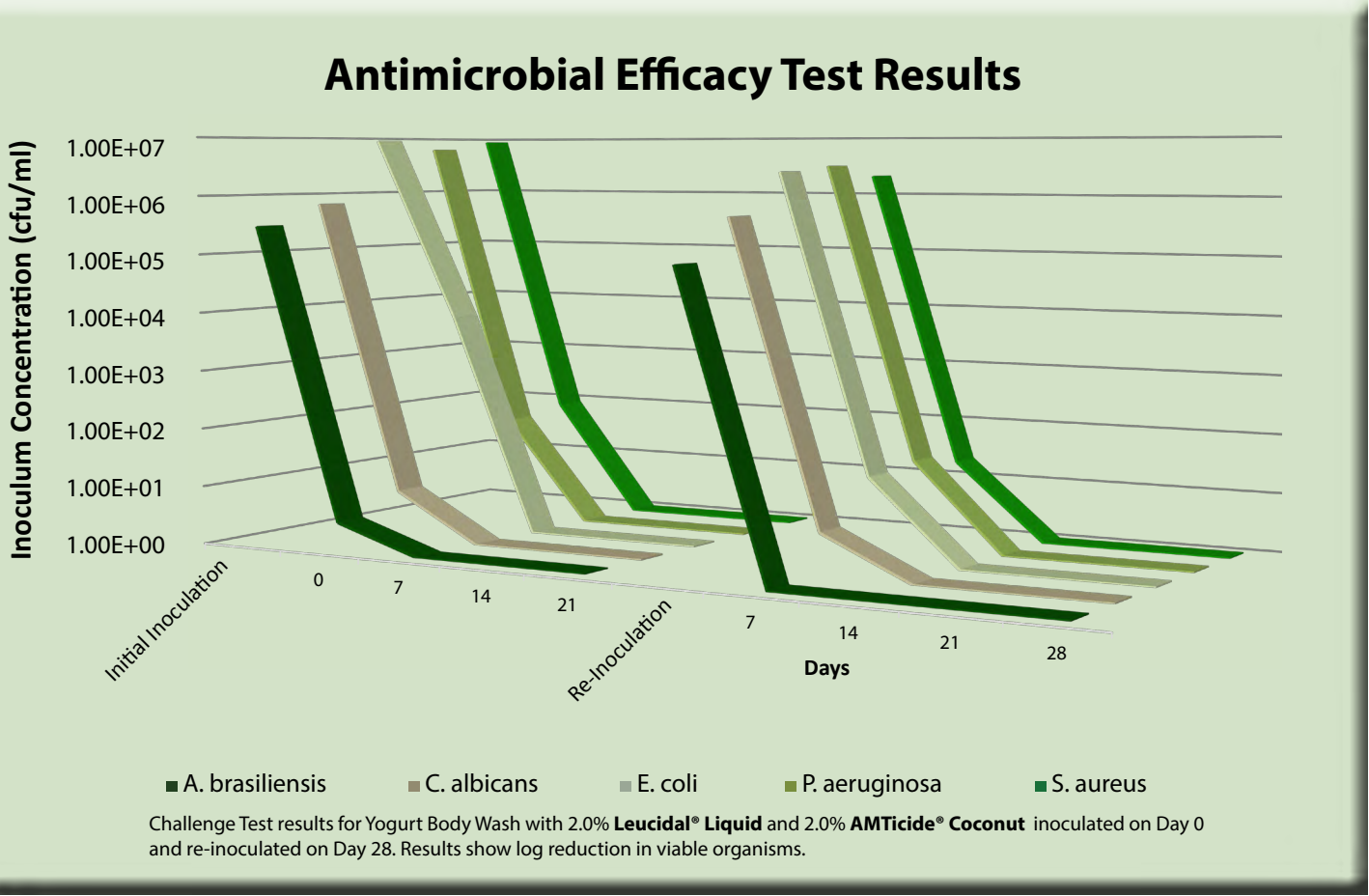
Apply desired amount of wash to loofah or bath sponge. Massage into skin for generous lather and then rinse with water.

## Specification Values:

Appearance: Hazy Viscous Liquid.  
 pH-value: 5.2 - 5.4  
 Viscosity (Brookfield: TF; Speed 10 rpm): 1000 - 5000 cps  
 Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

## Microbiological Stability: Proven.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



# Anti-Aging Hair Serum

Anti-aging hair serum prevents dull, lifeless hair associated with the aging process. Anti-aging hair serum arms hair with the tools to retain moisture, defend against styling tools, and ward off dulling environmental oppressors. Keep hair moisturized, smooth, and young with this Anti-Aging Hair Serum, perfect for all textures of hair!

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Deionized Water	Water	67.9	Local
Keltrol® CG-SFT	Xanthan Gum	0.50	CPKelco
ProCutiGen® Vegan Thermal Shield	Saccharomyces Cerevisiae Extract	5.00	Active Concepts
ACB Cationic Glycoprotein PF	Lactobacillus/Eriodictyon Californicum Ferment Extract & Phospholipids	3.00	Active Concepts
ABS Apple AHA's	Water & Propylene Glycol & Malic Acid & Pyrus Malus (Apple) Fruit Extract & Glycolic Acid & Lactic Acid & Citric Acid	6.00	Active Concepts
ACB Pisum Sativum Peptide	Pisum Sativum (Pea) Peptide	5.00	Active Concepts
AcquaSeal® Coconut	Cocos Nucifera (Coconut) Fruit Extract	1.00	Active Concepts
<b>Phase B</b>			
<b>Leucidal® Liquid SF</b>	<b>Leuconostoc/Radish Root Ferment Filtrate</b>	<b>4.00</b>	<b>Active Micro Technologies</b>
<b>AMTicide® Coconut</b>	<b>Lactobacillus &amp; Cocos Nucifera (Coconut) Fruit Extract</b>	<b>2.00</b>	<b>Active Micro Technologies</b>
Citric Acid (50%)	Citric Acid	Q.S.	Sigma Aldrich
Potassium Hydroxide (20%)	Potassium Hydroxide	5.60	Spectrum Chemical

## Manufacturing Procedure:

1. Add xanthan gum to water, allow to mix thoroughly. Heat to 60°C.
2. Once mixed thoroughly, add Phase A ingredients individually, ensuring proper mixture before adding the next while cooling. Mix thoroughly.
3. Add Phase B ingredients. Mix thoroughly.
4. Adjust pH to 5.5.

## Use Directions:

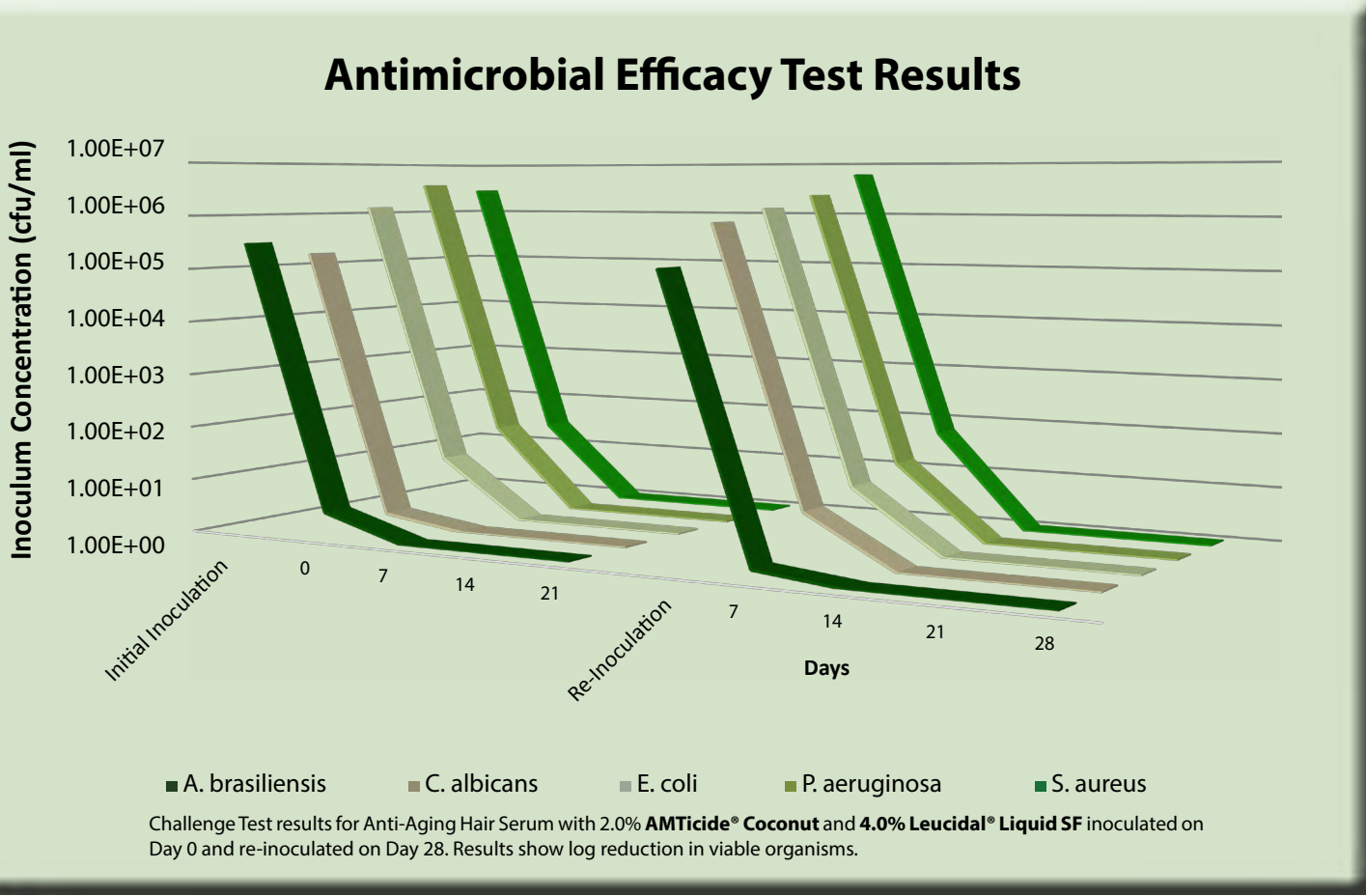
Apply dime size amount to clean damp hair. Style accordingly.

## Specification Values:

Appearance: Opaque, Light Brown Serum  
 pH: 5.5  
 Viscosity (Brookfield: TF; Speed 10 rpm): 1000 - 5000 cps  
 Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

## Microbiological Stability: Proven.

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# Pro-Bonding Conditioner

Experience weightless nourishment and protection all day long. Pro-Bonding Conditioner is the perfect accompaniment to the Pro-Bonding Shampoo. Pro-Bonding Conditioner reinforces all day protection, but won't weight hair down. Pro-Bonding Conditioner leaves hair soft, smooth and ready to take on the day!

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Deionized Water	Water (Aqua)	13.0	Local
Keltrol® CG-SFT	Xanthan Gum	2.00	CPKelco
<b>Phase B</b>			
Deionized Water	Water (Aqua)	51.5	Local
Tego® Alkanol 16	Cetyl Alcohol	4.00	Evonik
Tego® Alkanol 18	Stearyl Alcohol	4.00	Evonik
<b>Phase C</b>			
Shea Butter Refined	Shea Butter	1.00	Rita Corp.
ABS Pomegranate Sterols	Punica Granatum Sterols	1.00	Active Concepts
SilDerm® Softening	Cyclopentasiloxane & Dimethicone/ Bis-Vinyldimethicone/Silsesquioxane Crosspolymer & Silk	3.00	Active Concepts
Glycerin	Glycerin	3.00	Spectrum Chemical
ProCutiGen® Bond	Salvia Hispanica Seed Extract	5.00	Active Concepts
AC Vegan Kerazyme® Protect	Hydrolyzed Corn Protein & Hydrolyzed Wheat Protein & Hydrolyzed Soy Protein & Bambusa Arundinacea Leaf Extract & Trametes Versicolor Extract	5.50	Active Concepts
AC Keratin Hydrolysate 30 PF	Hydrolyzed Keratin	4.00	Active Concepts
<b>Phase D</b>			
Leucidal® Liquid SF	Lactobacillus Ferment	4.00	Active Micro Technologies
AMTicide® Coconut	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	2.00	Active Micro Technologies

### Manufacturing Procedure:

1. Sprinkle xanthan gum on to water while mixing. Mix until uniform.
2. In a separate vessel, add water and begin propellar mixing. Add TA-16 and TA-18. Heat to 65°C. Mix until uniform. Remove from heat. Combine with Phase A.
3. Add Phase C one ingredient at a time as listed.
4. Add Phase D. Mix and cool to ambient temperature.

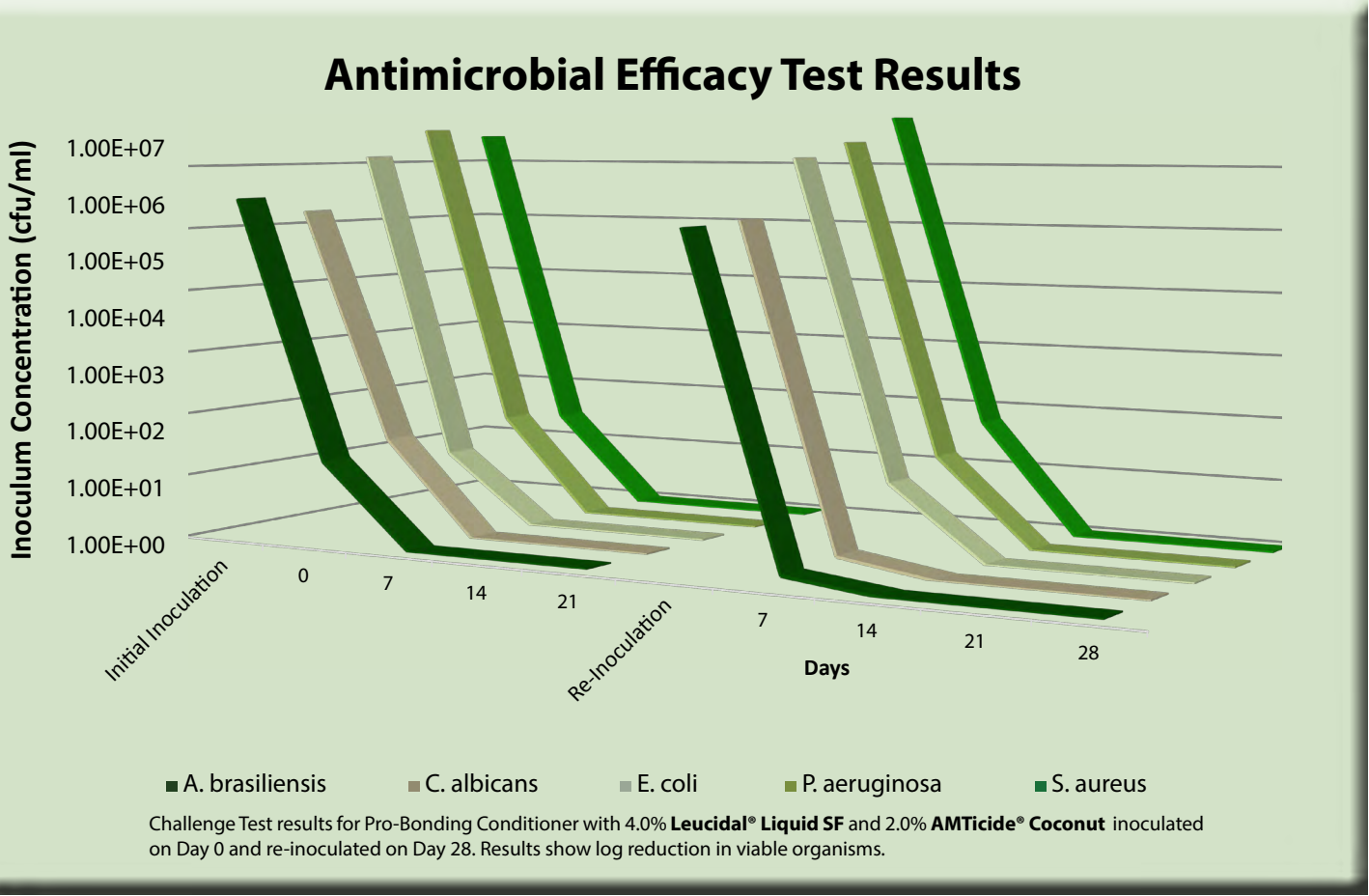
### Use Directions:

Apply quarter size amount to wet, clean hair, massage into hair and scalp, rinse. Use in conjunction with Pro-Bonding Shampoo for maximum protection.

### Specification Values:

Appearance: Off-White Cream.  
 pH: 7.0 - 8.0  
 Viscosity (Brookfield: TF; Speed 10 rpm): 30000 - 40000 cps  
 Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

### Microbiological Stability: Proven. PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



# Pro-Bonding Shampoo

Pro-Bonding Shampoo promotes healthy cuticles, protects from external stressors and prevents damage through out the day. The multifunctional Pro-Bonding Shampoo delivers moisturizing, smoothing, and nourishing attributes for healthy, protected locks!

Trade Name	INCI Name	%	Vendor
Phase A			
Deionized Water	Water (Aqua)	30.05	Local
Disodium EDTA	Disodium EDTA	0.05	Spectrum Chemical
Bio-Terge® AS-40	Sodium C14-C16 Olefin Sulfonate	45.0	Stepan
NINOL® M40	Cocamidopropyl Betaine	10.0	Spectrum Chemical
AC Hair Nutrition Complex	Serenoa Serrulata Fruit Extract (and) Threonine (and) Phosphorus (and) Azelaic Acid (and) Niacin (and) Guarana Extract (and) N-Carboxyethyl Butyric Acid (and) Retinyl Palmitate (and) Magnesium Ascorbyl Phosphate (and) Tocopherol Acetate (and) Calcium Pantothenate (and) Magnesium Salicylate (and) Ornithine Decarboxylase (and) Calphostin C (and) Zinc Gluconate	2.00	Active Concepts
ProCutiGen® Bond	Salvia Hispanic Seed Extract	1.00	Active Concepts
ACB Yogurt Dermal Respiratory Factor PF	Lactobacillus Ferment Lysate Filtrate	0.95	Active Concepts
AC CytoPure PF	Crypthecodinium Cohnii Extract	3.00	Active Concepts
Leucidal® Liquid SF	Lactobacillus Ferment	3.00	Active Micro Technologies

**Manufacturing Procedure:**

1. Add water to main vessel and being propellar mixing.
2. While heating to 55-60°C, add Disodium EDTA, Sodium C14-C16 Olefin Sulfonate, and Cocamidopropyl Betaine.
3. Add the remaining ingredients in order. Mix until homogeneous.

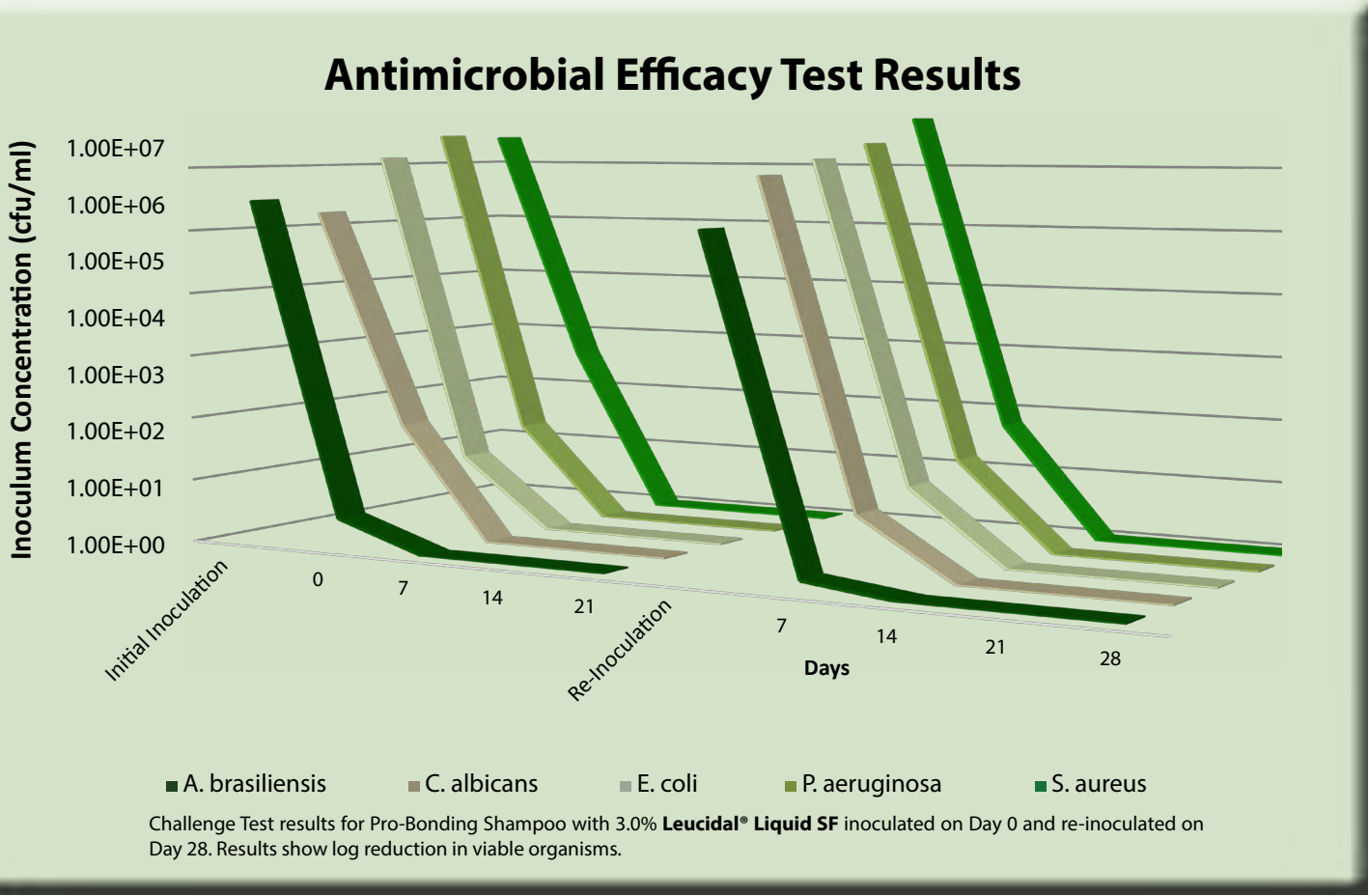
**Use Directions:**

Apply quarter size amount to wet hair, massage into hair and scalp. Great for every day use and before and after chemical treatments.

**Specification Values:**

Appearance: Light Yellow Viscous Liquid.  
pH-value: 5 - 5.2  
Viscosity (Brookfield: TF; Speed 10 rpm): 3000 - 8000 cps  
Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

**Microbiological Stability: Proven.**  
PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.





# Split End Sealant

The perfect blow dry requires healthy-looking hair without rebellious split ends. This prepping Split End Sealant effectively smooths split ends to get hair style ready. Helps nourish hair that's prone to breaking, splitting or snapping off, while smoothing the cuticle, leaving hair healthy, shiny and resilient.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water	74.65	Local
Dermofeel® PA-3	Sodium Phytate	0.10	Dr. Straetmans
<b>PhytoCide Aspen Bark Extract Powder</b>	<b>Populus Tremuloides (Aspen) Bark Extract</b>	<b>2.00</b>	<b>Active Micro Technologies</b>
DL-Panthenol	Panthenol	0.10	Sandream Impact
<b>Phase B</b>			
AMMONYX® CETAC-30	Cetrimonium Chloride	1.00	Stepan
Keltrol® CG-SFT	Xanthan Gum	1.00	CPKelco
<b>Phase C</b>			
Polysobate 20	Polysorbate 20	1.00	Spectrum Chemical
ABS Amaranthus Squalane	Squalane	0.50	Active Concepts
<b>Phase D</b>			
SilDerm® Emulsifying CS	Cyclopentasiloxane & Polymethylsilsesquioxane	3.00	Active Concepts
AC Silk Hydrolysate PF	Hydrolyzed Silk	2.00	Active Concepts
SilDerm® Smoothing	Cyclomethicone & Dimethicone	2.00	Active Concepts
<b>Phase E</b>			
AC Split End Complex	Hydroxypropyltrimonium Hydrolyzed Rice Protein/ Siloxysilicate & Oryza Sativa (Rice) Extract	5.00	Active Concepts
AC Keratin Amino Acids Sil	Cyclopentasiloxane & Keratin Amino Acids	3.00	Active Concepts
ACB Bio-Chelate 5 PF	Water & Saccharomyces/Zinc Ferment & Saccharomyces/Copper Ferment & Saccharomyces/Magnesium Ferment & Saccharomyces/Iron Ferment & Saccharomyces/Silicon Ferment	2.00	Active Concepts
<b>Phase F</b>			
<b>SynerCide Asian Fusion</b>	<b>Hexylene Glycol &amp; Caprylyl Glycol &amp; Wasabia japonica Root Extract &amp; Zingiber officinale (Ginger) Root Extract &amp; Allium sativum (Garlic) Bulb Extract &amp; Water</b>	<b>2.00</b>	<b>Active Micro Technologies</b>
TEA 99%	Triethanolamine	0.20	Rita Corp.
Citric Acid (50% Solution)	Citric Acid	0.40	Sigma Aldrich
Carbopol® Aqua SF-1	Acrylates Copolymer	0.05	Lubrizol

## Manufacturing Procedure:

1. Charge water into main beaker and begin propeller mixing. A vortex should form. Add remaining Phase A ingredients and mix until homogeneous.
2. Pre-mix cetrimonium chloride and xanthan gum in a separate beaker. Slowly add these Phase B ingredients to main and mix until homogenous.
3. In a separate beaker, combine Phase C ingredients. Then add to main beaker and mix until homogeneous.
4. In a separate beaker, combine Phase D ingredients. Add to main beaker and mix until homogeneous.
5. In a separate beaker, combine Phase E ingredients. Add to main beaker and mix until homogeneous.
6. Add SynerCide Asian Fusion to main beaker and mix thoroughly. Add TEA, citric acid, and acrylates copolymer individually to main, mixing thoroughly.

## Use Directions:

Apply a pea-sized amount to wet or dry hair. Make sure to smooth completely through to the ends.

## Specification Values:

Appearance: Hazy Viscous Liquid.

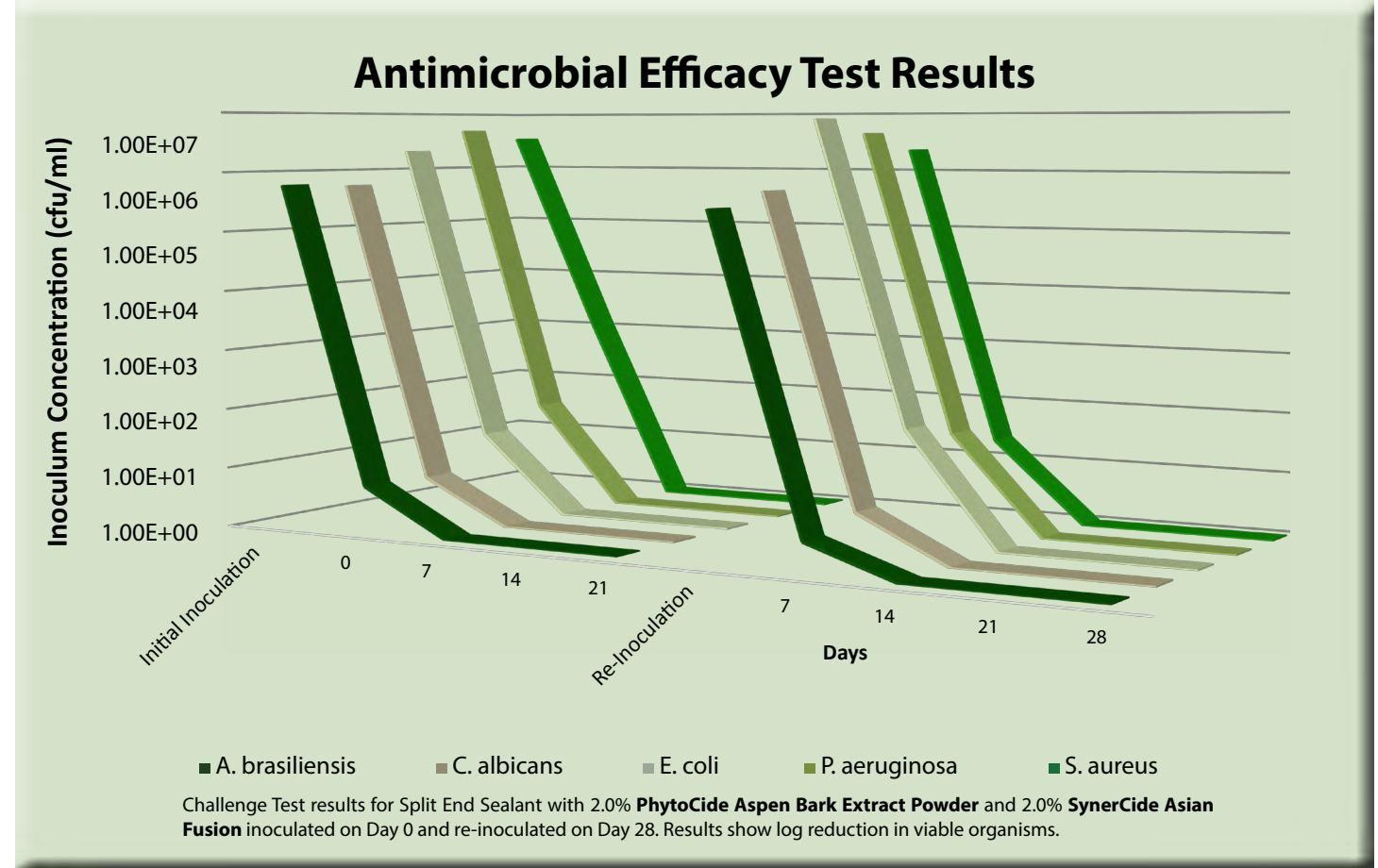
pH: 5.15

Viscosity (Brookfield: TF; Speed 10 rpm): 4000 - 10000 cps

Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

## Microbiological Stability: Proven.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.



# Sulfate-Free Shampoo

Sulfate-Free Shampoo bathes hair in a mild lather while calming and smoothing frizzy strands. Free of added dyes and harsh sulfates, refresh and revitalize your color treated hair with this gently cleansing and purifying shampoo.

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Water	Water	53.8	Local
Glycerin	Glycerin	0.50	Spectrum Chemical
Tetrasodium EDTA	Tetrasodium EDTA	0.10	BASF
STEPAN-MILD® PCL	Sodium Methyl-2 Sulfolaurate and Disodium 2-Sulfolaurate, Sodium Lauryl Sulfoacetate	38.0	Stepan
AMPHOSOL® HCG	Cocamidopropyl Betaine	10.0	Stepan
STEPAN-MILD® GCC	Glyceryl Caprylate/Caprates	0.30	Stepan
Hallstar®EGDS	Glycol Distearate	0.50	Hallstar
DL-Panthenol	Panthenol	0.20	Sandream Impact
<b>Phase B</b>			
Leucidal® Liquid SF	Lactobacillus Ferment	2.00	Active Micro Technologies
AMTicide® Coconut	Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract	2.00	Active Micro Technologies

## Manufacturing Procedure:

1. Charge water in main beaker, begin propeller mixing, and start heating to 60o-65oC. Add glycerin, tetrasodium EDTA, STEPAN-MILD® PCL, AMPHOSOL® HCG, STEPAN-MILD®GCC, and glycol distearate using moderate agitation. Continue heating to 60°-65°C. Mix for at least 30 minutes until everything is completely dissolved.
2. Cool mixture to 40°C. Adjust mixing to minimize aeration. At 40°C, add panthenol.
3. Add Phase B ingredients individually at 40°C. Mix until uniform and cool to room temperature.

## Use Directions:

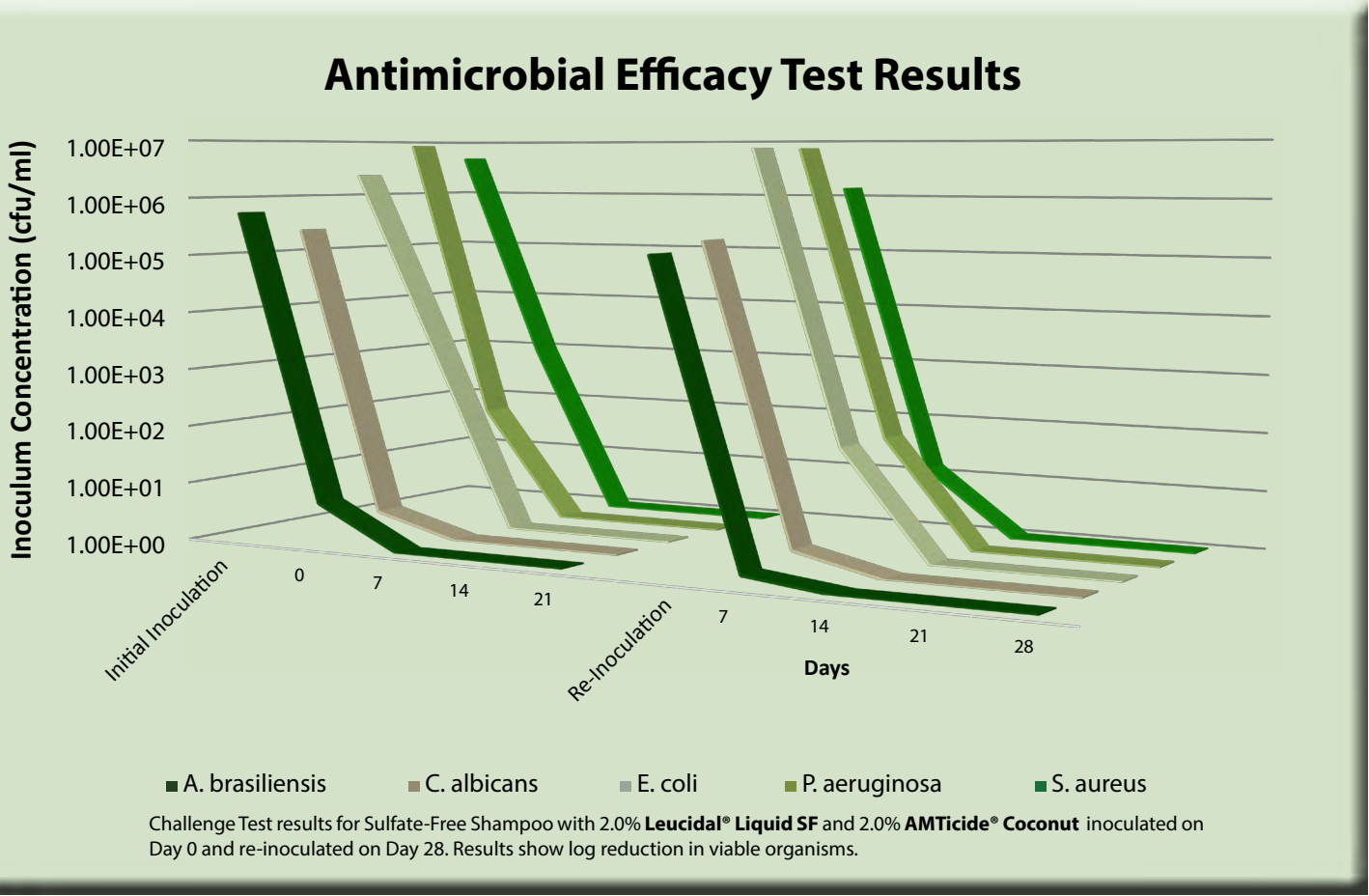
Apply a quarter-sized amount to wet hair and lather. Rinse. Repeat if desired.

## Specification Values:

Appearance: Hazy Viscous Liquid.  
 pH-value: 5.2 - 5.4  
 Viscosity (Brookfield: TF; Speed 10 rpm): 2500 - 4000 cps  
 Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

## Microbiological Stability: Proven.

PCPC Section 20 Method 3 - Determination of Preservation Adequacy of Water-Miscible Personal Care Products.





# Plumping Lip Balm

Hydrate and plump lips for the perfect pout! This moisturizing lip balm features hydrating coconut for a refreshed, deeply nourished pout. A combination of plumping actives help to reduce the appearance of fine lines and wrinkles by volumizing and promoting youthful, healthy lips. Kiss dry lips goodbye!

Trade Name	INCI Name	%	Vendor
<b>Phase A</b>			
Olivem® 900	Sorbitan Olivatate	15.0	HallStar
Oliwax®	Hydrogenated Olive Oil (and) Olea Europaea (Olive) Fruit Oil (and) Olea Europaea (Olive) Oil Unsaponifiables	3.00	HallStar
Eutanol® G	Octyldodecanol	22.0	DeWolf Chemical
Biomimetic Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	22.0	Active Concepts
Castor Oil	Ricinus Communis (Castor) Seed Oil	21.0	Caribbean Natural Products Inc.
AC NanoVector Plump GABA HYA	Ethylhexyl Palmitate & Silica Dimethyl Silylate & Butylene Glycol & Gamma Aminobutyric Acid & Phenoxyethanol & Caprylyl Glycol & Hexylene Glycol & Sodium Hyaluronate	3.00	Active Concepts
Beeswax	Beeswax	5.00	Koster Keunen, Inc
MetaBeads® MicroWax	Microcrystalline Wax	5.00	FloraTech
<b>PhytoCide Elderberry OS</b>	<b>Sambucus Nigra Fruit Extract</b>	<b>2.00</b>	<b>Active Micro Technologies</b>
Iron Oxide	Iron Oxide	1.00	Kobo Products, Inc.
AcquaSeal® Coconut	Cocos Nucifera (Coconut) Fruit Extract	1.00	Active Concepts

**Manufacturing Procedure:**

1. Melt the waxes in the oils and mix the pigments until a homogeneous dispersion.
2. If desired, add fragrance and pour balm into container.

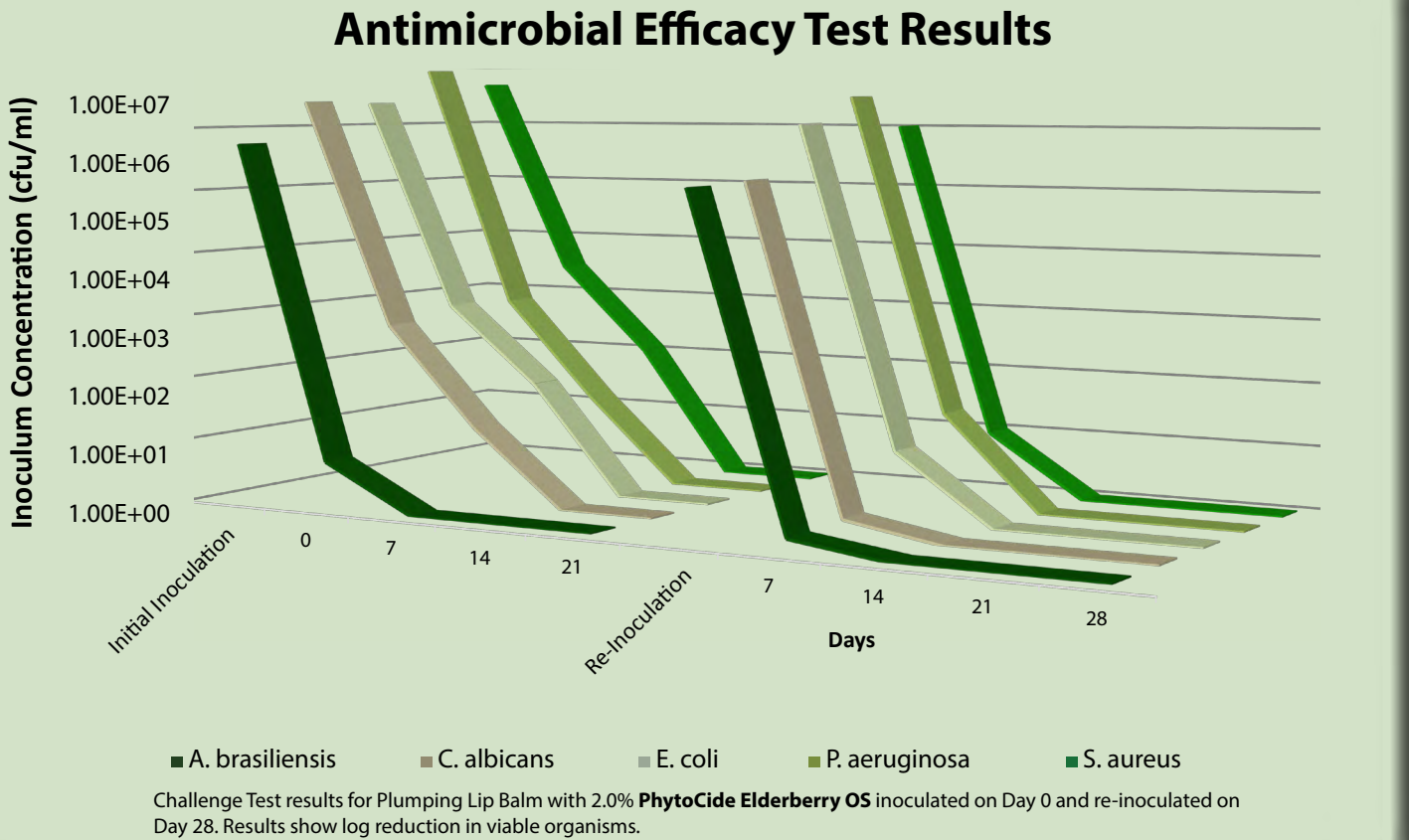
**Use Directions:**

Apply desired amount of wash to loofah or bath sponge. Massage into skin for generous lather and then rinse with water.

**Specification Values:**

Appearance: Solid, Red Balm.  
Stability: ≥3 months stable at 4°C, 23°C, and 45°C.

**Microbiological Stability:** Proven.  
PCPC Section 20 Method 6 - Method for Preservation Testing of Atypical Personal Care Products.





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