

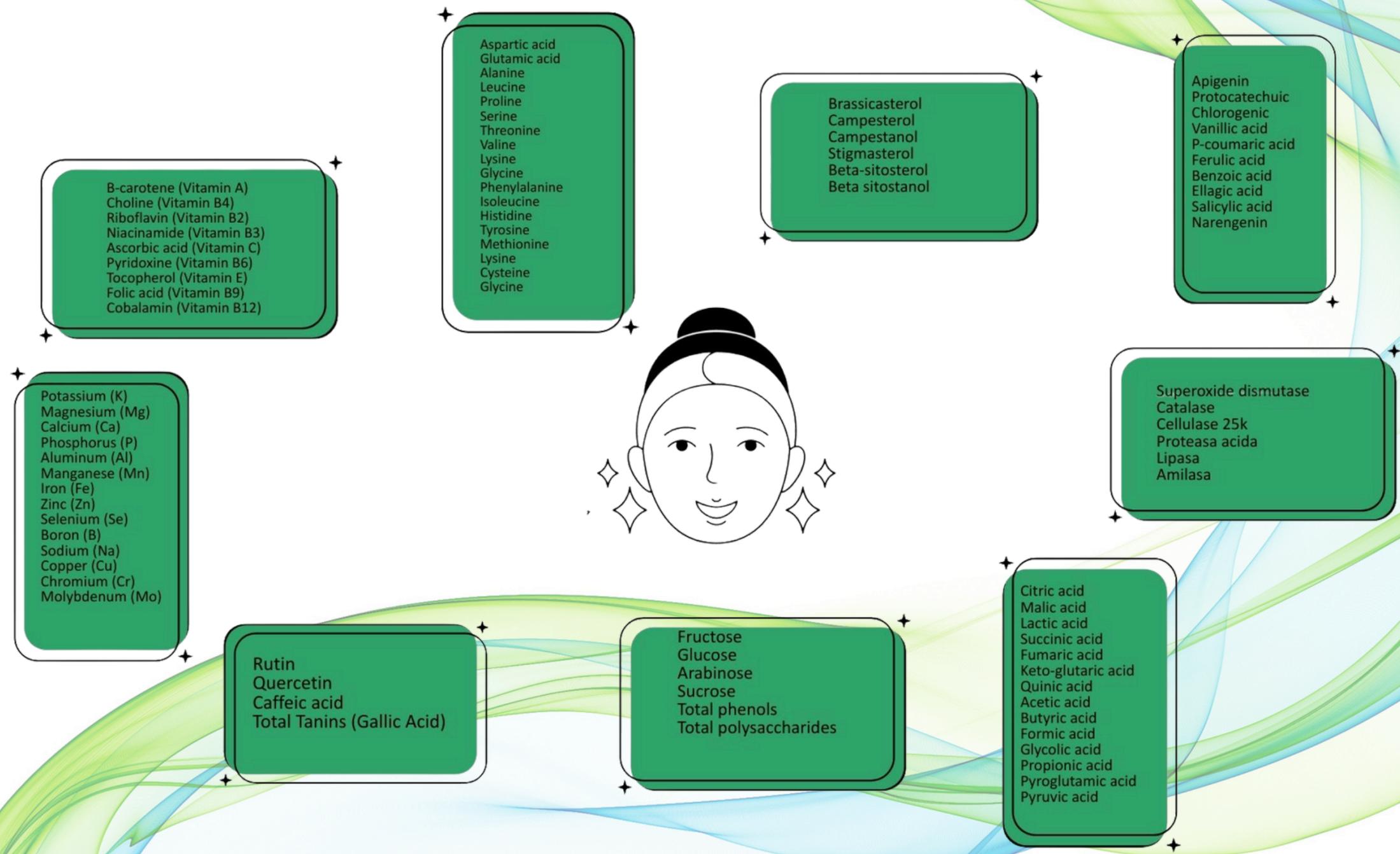


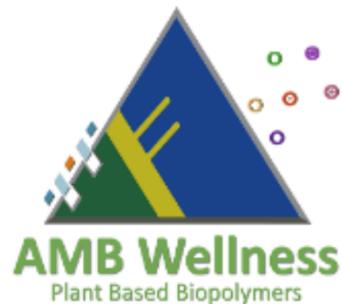
Ambiome™ SKC

Aloe Fermented for Skincare formulations



- INCI NAME: LACTOBACILLUS/ALOE BARBADENSIS FERMENTED FILTRATE
- CHINESE INCI NAME: 芦荟叶汁发酵
- CAS NUMBER: 85507-69-3
- PRODUCT CODE: 1902





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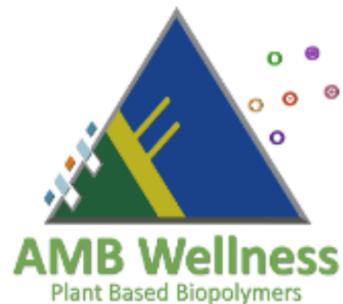
SCFA

Isobutyric acid
Isovaleric acid
Valeric acid
Capric acid
Lauric acid
Caprylic acid
Margaric acid
Palmitic acid
Myristic acid
Stearic acid
Oleic acid
Linolenic acid
Palmitoleic acid
Hexadecadienoic acid



Organic Acids

Citric acid
Malic acid
Lactic acid
Succinic acid
Fumaric acid
Keto-glutaric acid
Quinic acid
Acetic acid
Butyric acid
Formic acid
Glycolic acid
Propionic acid
Pyroglutamic acid
Pyruvic acid



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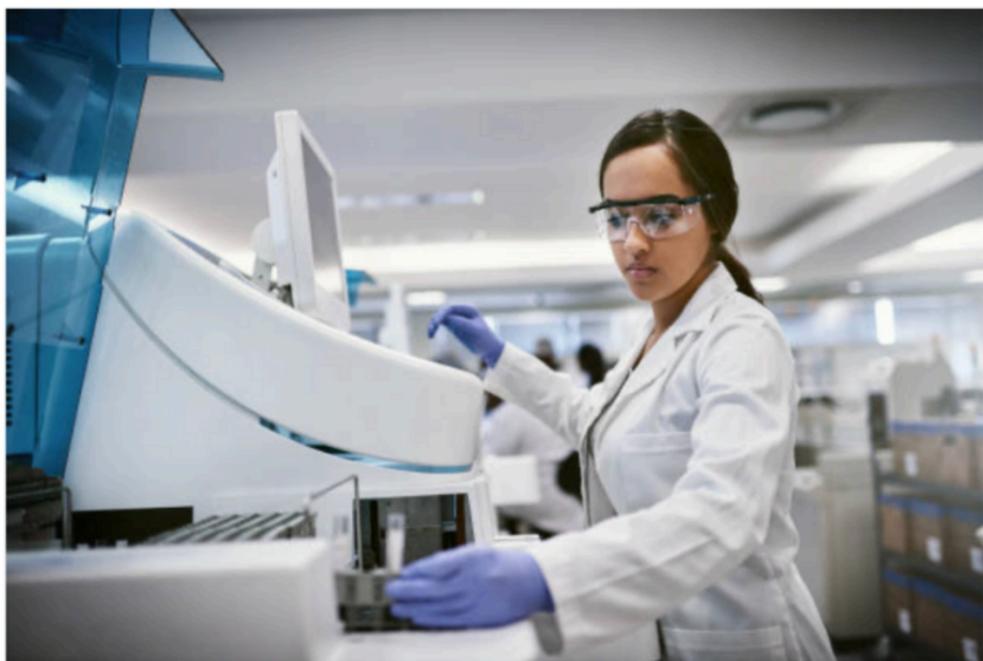
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AMBIOME™ SKC Aloe Fermented, is our Aloe with active ingredients created by the precise fermentation from AMB Wellness, using a proprietary culture of strains isolated from our plant aloe vera and deactivated benefit bacterias with state of the art, High Pressure Processing (HPP), which is a non-thermal (5.C – 20.C) aloe vera gel preservation method that guarantees the preservation of the organoleptic and nutritional attributes of the plant, using Aloe natural carbon sources are biochemically transformed into smaller, more bioavailable compounds called postbiotics; this process significantly enhances the biological activity, skin compatibility, and anti-aging efficacy of the ingredient.

Short-chain fatty acids (SCFAs), organic acids, and enzymes that are obtained through precise fermentation process support the skin, reducing inflammation, and helping restore optimal skin function, all key factors in slowing wrinkle formation. Aloe can stimulate fibroblast activity and support collagen synthesis, improving firmness and reducing fine lines. AMBIOME™ SKC Aloe Fermented delivers multiple skin benefits across a wide range of cosmetic products, including brightening, sun protection, anti-aging and antioxidant support, deep hydration, and optimal balance of water and oil for healthy, radiant skin. Research shows that fermentation significantly enhances biochemical activity by converting high-molecular-weight compounds into smaller, more bioavailable structures. This allows your skin to absorb these ingredients more effectively, working in harmony with its natural processes.





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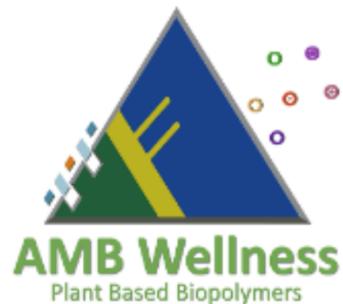
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CAS NUMBER: 85507-69-3

PRODUCT CODE: 1902

Aminoacids.....	3
Vitamins.....	4
Minerals.....	5
Phytosterols.....	6
Tannins.....	7
Saponins.....	7
Enzymes.....	8
Flavonoids.....	9
Organic Acids.....	10, 11
Saccharides.....	12
Phenols.....	13
Polysaccharides.....	13



AMBIOME™ SKC

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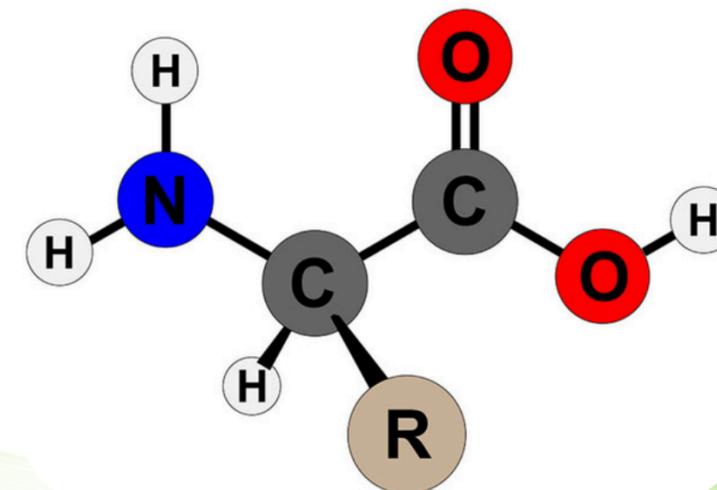
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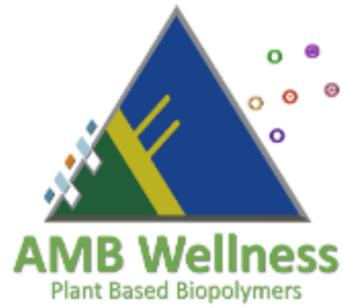
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Aloe Compound	Value COA (ppm)	Method / Laboratory tested	Activity
Total Aminoacids	12,890.01 PPM	HPLC/ Neutron	Hydration, collagen synthesis, skin firmness, and anti-aging effects. These aminoacids and fatty acids work together to improve skin's overall health and appearance.
Aspartic acid	1350.01 PPM	HPLC/ Neutron	Hydrates, strengthens skin's natural defenses, and may help relieve dry scalp symptoms.
Glutamic acid	2070.1 PPM	HPLC/ Neutron	Acts as a humectant, drawing moisture into the skin and potentially reducing the appearance of wrinkles. It also helps maintain the skin's pH balance.
Alanine	912.15 PPM	HPLC/ Neutron	Hydrates, supports collagen synthesis, and can reduce the appearance of fine lines and wrinkles.
Leucine	852.14 PPM	HPLC/ Neutron	May help repair and regenerate aging skin tissue, leading to smoother and firmer skin.
Proline	700.06 PPM	HPLC/ Neutron	Along with other amino acids, it may play a role in wound healing and potentially have anti-aging effects.
Serine	856.12 PPM	HPLC/ Neutron	May improve skin elasticity and hydration.
Threonine	541.31 PPM	HPLC/ Neutron	Can contribute to collagen synthesis and may help protect against environmental damage.
Valine	715.08 PPM	HPLC/ Neutron	Along with other amino acids, it contributes to overall skin health and may help with collagen production.
Lysine	1350.01 PPM	HPLC/ Neutron	May help with collagen production and wound healing.
Glycine	2070.1 PPM	HPLC/ Neutron	A key component of collagen, glycine can help improve skin firmness and reduce wrinkles.
Phenylalanine	3.99 PPM	HPLC/ Neutron	Depigmenting: Its use in vitiligo treatments is being studied.
Isoleucine	24.90 PPM	HPLC/ Neutron	Moisturizing, repairing: It aids in tissue repair.
Histidine	13.86 PPM	HPLC/ Neutron	Antioxidant, Protective: It acts as a natural antioxidant and helps protect against UV radiation.
Tyrosine	4.59 PPM	HPLC/ Neutron	Depigmenting/Pigmenting: A precursor to melanin. Its use may influence skin and hair color.
Methionine	32.64 PPM	HPLC/ Neutron	Antioxidant, Repairing: A source of sulfur, essential for the synthesis of antioxidants (glutathione) and healthy nails and hair.
Lysine	749.25 PPM	HPLC/ Neutron	Repairing, Hair: Crucial for the synthesis of collagen and elastin. It strengthens hair and improves its texture.
Cysteine	124.45 PPM	HPLC/ Neutron	Hair, Antioxidant, Repairing: A key component of keratin. It strengthens hair and nails and is a powerful antioxidant.
Glycine	519.25 PPM	HPLC/ Neutron	Moisturizing, Anti-aging: A component of collagen. It improves skin elasticity and has moisturizing properties.





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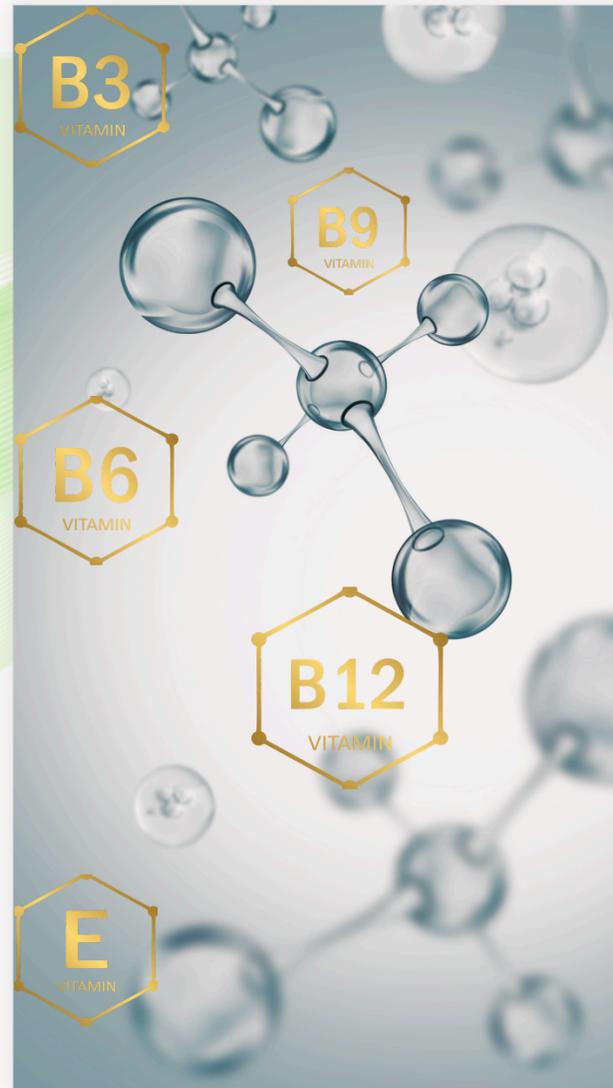
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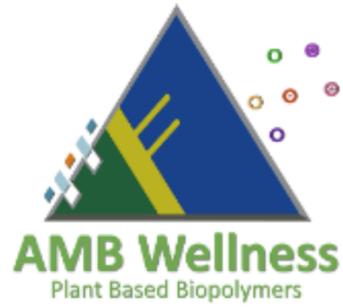
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Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Vitamins	3,270.27 PPM	LC-MS/MS/ Eurofins Analytik GmbH	Providing antioxidant protection, improving skin tone and texture, promoting hydration, and supporting skin repair
B-carotene (Vitamin A)	302.22 PPM	LC-FLD/ Eurofins Analytik GmbH	Antioxidant, Protective: Protects the skin from oxidative stress and provides a healthy tone.
Choline (Vitamin B4)	416 PPM	LC-MS/MS/ Eurofins Analytik GmbH	Moisturizing, repairing: Improves the skin barrier function, helping to maintain skin hydration and integrity.
Riboflavin (Vitamin B2)	756.5 PPM	LC-FLD/ Eurofins Analytik GmbH	Antioxidant, Repairing: Essential for the health of skin and mucous membranes. Aids in tissue repair.
Niacinamide (Vitamin B3)	999.66 PPM	LC-FLD/ Eurofins Analytik GmbH	Sebum-regulating, Depigmenting, Anti-aging, Antioxidant: Regulates sebum, reduces blemishes, improves the skin barrier, and minimizes pores.
Ascorbic acid (Vitamin C)	25.65 PPM	LC-FLD/ Eurofins Analytik GmbH	This provides superior protection against environmental stressors and free radical damage, contributing to anti-aging benefits.
Pyridoxine (Vitamin B6)	769.5 PPM	LC-FLD/ Eurofins Analytik GmbH	Helps in regulating sebum production to prevent blemishes, reducing inflammation, strengthening the skin barrier to improve hydration and protection. It also supports collagen production for elasticity, helps with even skin tone by supporting melanin production, and its antioxidant properties can protect against premature aging.
Tocopherol (Vitamin E)	0.665 PPM	LC-FLD/ Eurofins Analytik GmbH	This provides superior protection against environmental stressors and free radical damage, contributing to anti-aging benefits.
Folic acid (Vitamin B9)	0.075 PPM	LC-MS/MS/ Eurofins Analytik GmbH	Repairing: Plays a role in cell division and renewal, contributing to skin repair and health.
Cobalamin (Vitamin B12)	0.0000667 PPM	LC-MS/MS/ Eurofins Analytik GmbH	Repairing: Involved in cell division, important for skin renewal.



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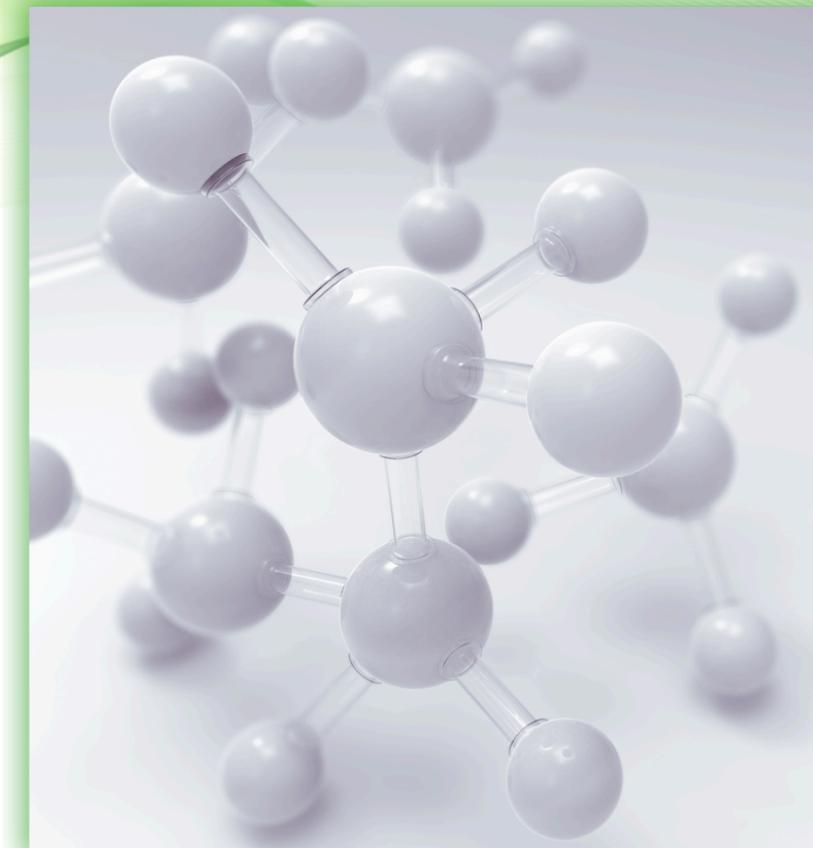
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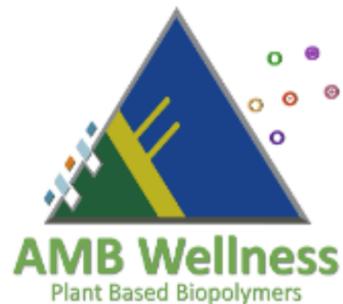
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Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total minerals	62,751.32 PPM	ICP-MS / Eurofins Analytik GmbH	Offer benefits like anti-inflammatory and antioxidant properties, which can calm irritation and protect against free radicals that cause aging.
Potassium (K)	4300.6 PPM	ICP-MS / Eurofins Analytik GmbH	Moisturizing: Regulates the water balance of skin cells, maintaining hydration.
Magnesium (Mg)	7894.5 PPM	ICP-MS / Eurofins Analytik GmbH	Repairing, Anti-inflammatory: Helps in the function of the skin barrier and can soothe irritated skin.
Calcium (Ca)	33000 PPM	ICP-MS / Eurofins Analytik GmbH	Repairing: Essential for cell differentiation and cohesion in the epidermis (outer layer of skin).
Phosphorus (P)	9300 PPM	ICP-MS / Eurofins Analytik GmbH	Energy-boosting: Participates in the production of cellular energy (ATP), crucial for skin vitality.
Aluminum (Al)	917.7 PPM	ICP-MS / Eurofins Analytik GmbH	Antiperspirant: Primarily used in deodorants to temporarily block sweat ducts.
Manganese (Mn)	54.23 PPM	ICP-MS / Eurofins Analytik GmbH	Antioxidant: Cofactor of the antioxidant enzyme Superoxide Dismutase (SOD).
Iron (Fe)	88.91 PPM	ICP-MS / Eurofins Analytik GmbH	Oxygenating: Transports oxygen to cells, giving the skin a healthy, rosy tone.
Zinc (Zn)	39.71 PPM	ICP-MS / Eurofins Analytik GmbH	Sebum-regulating, repairing, and antioxidant: Controls acne, heals wounds, protects from the sun, and regulates sebum production.
Selenium (Se)	34.08 PPM	ICP-MS / Eurofins Analytik GmbH	Antioxidant and protector: Protect the skin from UV damage and works synergistically with Vitamin E.
Boron (B)	15.78 PPM	ICP-MS / Eurofins Analytik GmbH	Structural integrity: Contributes to the health of cell membranes and may aid in hormone synthesis.
Sodium (Na)	7100.2 PPM	ICP-MS / Eurofins Analytik GmbH	Moisturizing: Part of the NMF (Natural Moisture Factor), it helps maintain the skin's natural hydration.
Copper (Cu)	0.7 PPM	ICP-MS / Eurofins Analytik GmbH	Anti-aging, repairing, and antioxidant: Cofactor for enzymes that produce collagen, elastin, and melanin, and is an antioxidant (SOD).
Chromium (Cr)	4.05 PPM	ICP-MS / Eurofins Analytik GmbH	Metabolism: Plays a role in the metabolism of fats and carbohydrates, with indirect effects on skin health.
Molybdenum (Mo)	0.864 PPM	ICP-MS / Eurofins Analytik GmbH	Detoxifying: Activates enzymes that help break down toxins and sulfites in the body.





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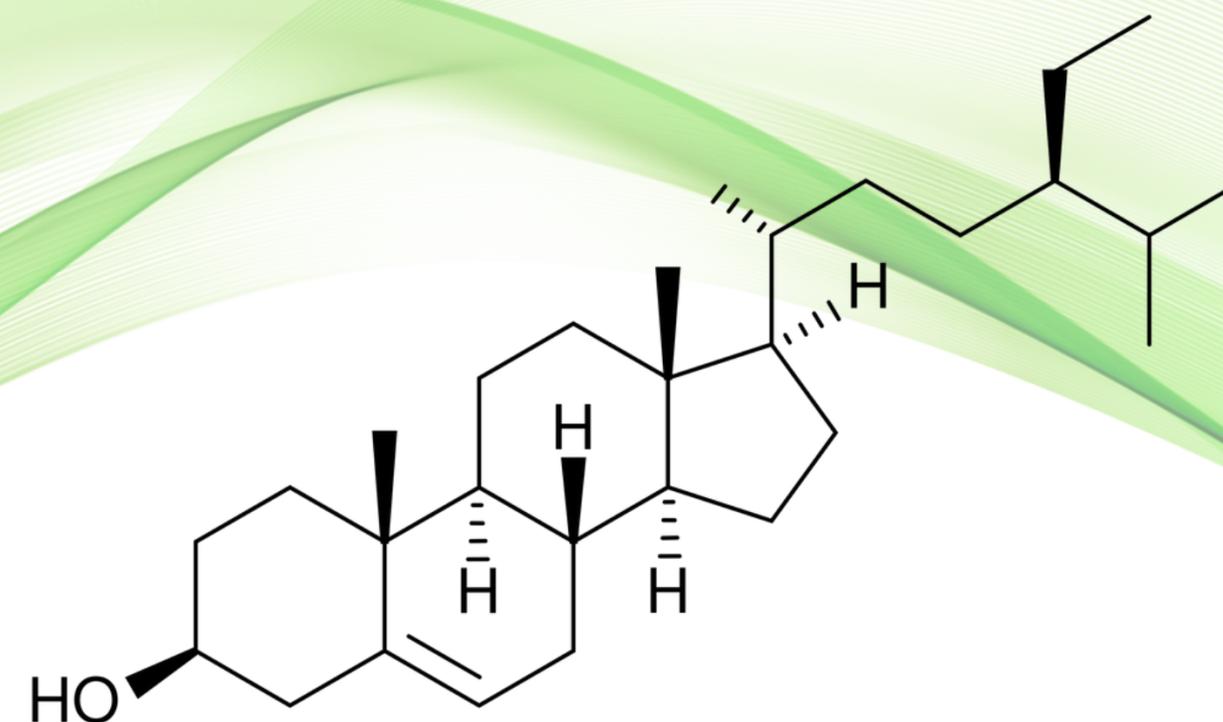
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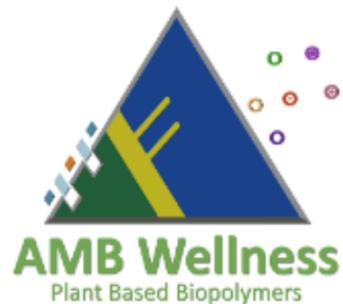
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Aloe Compound	Value COA(ppm)	Method/Laboratory tested	Activity
Total Phytosterols	25,600 PPM	LC-MS/CreativeProteomics	Phytosterols benefit skin by deeply hydrating and strengthening the skin barrier, which reduces dryness and protects against environmental stressors. They also have anti-inflammatory properties to soothe redness and may help repair the skin and stimulate collagen production, which can reduce signs of aging.
Brassicasterol	10,800 PPM	LC-MS/Creative Proteomics	Offer potential benefits in skincare, particularly in moisturizing and maintaining the skin's natural barrier.
Campesterol	1200 PPM	LC-MS/Creative Proteomics	These plant-derived compounds, structurally similar to cholesterol, can help to prevent water loss, reduce dryness, and improve skin hydration.
Campestanol	2200 PPM	LC-MS/Creative Proteomics	Promote skin healing and hydration, they have anti-inflammatory effects.
Stigmasterol	6000 PPM	LC-MS/Creative Proteomics	Have demonstrated anti-inflammatory activity by inhibiting inflammatory enzymes and pro-inflammatory cytokines.
Beta-sitosterol	1300 PPM	LC-MS/Creative Proteomics	This can help reduce redness, swelling, and irritation caused by conditions like rosacea, acne, and sensitive skin.
Beta sitostanol	4100 PPM	LC-MS/Creative Proteomics	Improving its ability to retain moisture and reducing trans epidermal water loss (TEWL). This helps to prevent dryness and flakiness and protects the skin from external irritants.





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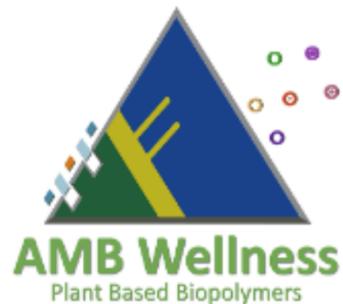
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Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Tanins (Gallic Acid)	2.88 PPM	HPLC-UV/ CreativeProteomics	<p>Play a role in protecting plants from pathogens, fungal penetration, and UV damage. Offer specific health benefits, skin benefits and protection with defenses with aloe vera and its bio compounds.</p> <p>These innovative solutions are transforming the landscape of personal care, offering personal care manufacturers a powerful ingredient to improve their consumer's beauty and overall quality of life</p> <p>Antioxidant, anti-inflammatory, anti-aging. One of the most potent flavonoids.</p> <p>Protects against oxidative stress and soothes irritated skin.</p> <p>Antioxidant, protective. Offers strong protection against free radicals and sun damage.</p>
Aloe Compound	Value COA (ppm)	Method/Laboratory tested	
Total Saponins	50.76 PPM	HPLC-UV/ CreativeProteomics	
Rutin	20.07 PPM	HPLC-UV/ Creative Proteomics	
Quercetin	29.24 PPM	HPLC-UV/ Creative Proteomics	
Caffeic acid	1.45 PPM	HPLC-UV/ Creative Proteomics	





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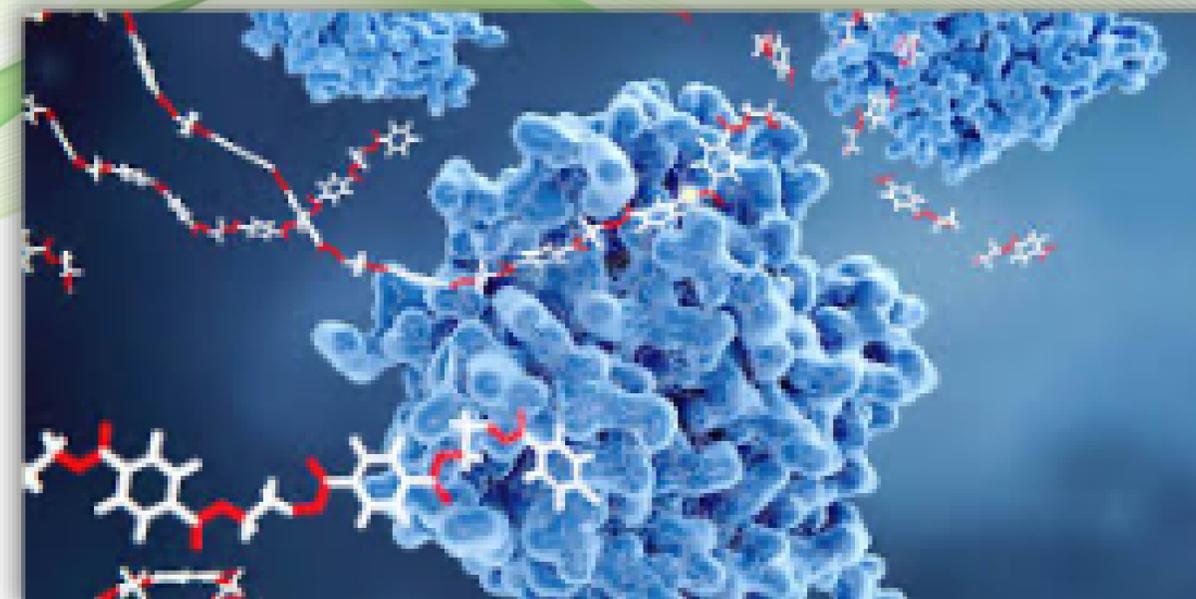
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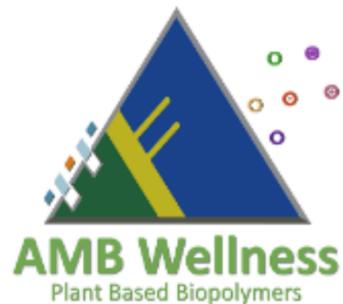
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Aloe Compound	Value COA(ppm)	Method/Laboratory tested	Activity
Total Enzymes	91,000 U	INTERNAL METHOD (AMB-001)	Dedicated to biofortify cosmetics formulations that offer specific health benefits, skin benefits and protection with defenses with aloe vera and its biocompounds.
Superoxidodismutase	8,000U	INTERNAL METHOD (AMB-001)	Neutralizes the superoxide radical, one of the most damaging free radicals, protecting the skin from oxidative stress.
Catalase	8000U	INTERNAL METHOD (AMB-001)	Breaks down hydrogen peroxide into water and oxygen, protecting cells from damage.
Cellulase 25k	8,000U	INTERNAL METHOD (AMB-001)	Used in products to help break down dead skin cells, improving texture.
Proteasa acida	28,750 U	INTERNAL METHOD (AMB-001)	Helps break down proteins in the stratum corneum (outermost layer of skin), promoting cell renewal.
Lipasa	8000 U	INTERNAL METHOD (AMB-001)	Helps break down lipids (fats), useful in cleansers for oily skin.
Amilasa	30250 U	INTERNAL METHOD (AMB-001)	Breaks down starches, can be used in cleansers to remove impurities.





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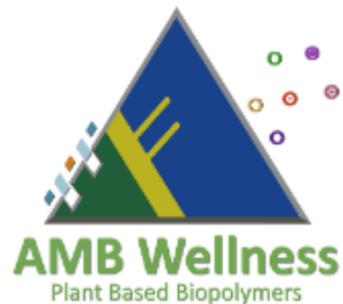
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Aloe Compound	Value COA(ppm)	Method/Laboratory tested	Activity
Total Flavonoids	421.63 PPM	HPLC-UV/ Laboratoire Phytocontrol	Are known for their antioxidant and anti-inflammatory properties.
Apigenin	2.89 PPM	HPLC-UV/ Laboratoire Phytocontrol	These compounds can help protect skin from damage caused by free radicals.
Protocatechuic	6.55 PPM	HPLC-UV/ Laboratoire Phytocontrol	Reduce inflammation, and promote overall skin health.
Chlorogenic	1.44 PPM	HPLC-UV/ Laboratoire Phytocontrol	Antioxidant, Depigmenting agent: A powerful antioxidant that can also inhibit tyrosinase, helping to reduce hyperpigmentation.
Vanillic acid	0.586 PPM	HPLC-UV/ Laboratoire Phytocontrol	Antioxidant, Preservative: Offers antioxidant protection and has antimicrobial properties.
P-coumaric acid	4.78 PPM	HPLC-UV/ Laboratoire Phytocontrol	Antioxidant, Protectant: Enhances the effectiveness of other antioxidants and protects against UV damage.
Ferulic acid	14.33 PPM	HPLC-UV/ Laboratoire Phytocontrol	Antioxidant, Stabilizer, Protectant: Stabilizes vitamins C and E, enhancing their effect and protecting against UV aging.
Benzoic acid	28.23 PPM	HPLC-UV/ Laboratoire Phytocontrol	Preservative: Primarily used as a preservative in cosmetic formulations.
Ellagic acid	24.08 PPM	HPLC-UV/ Laboratoire Phytocontrol	Antioxidant, Depigmenting agent: Neutralizes free radicals and helps prevent the formation of dark spots by inhibiting tyrosinase.
Salicylic acid	19.83 PPM	HPLC-UV/ Laboratoire Phytocontrol	Exfoliant, Sebum regulator, Anti-acne: Exfoliates deeply, unclogs pores, reduces acne, and controls oil.
Narengenin	318.92 PPM	HPLC-UV/ Laboratoire Phytocontrol	Antioxidant, Anti-inflammatory, Depigmenting; powerful flavonoids protect, soothe the skin and can help lighten spots.





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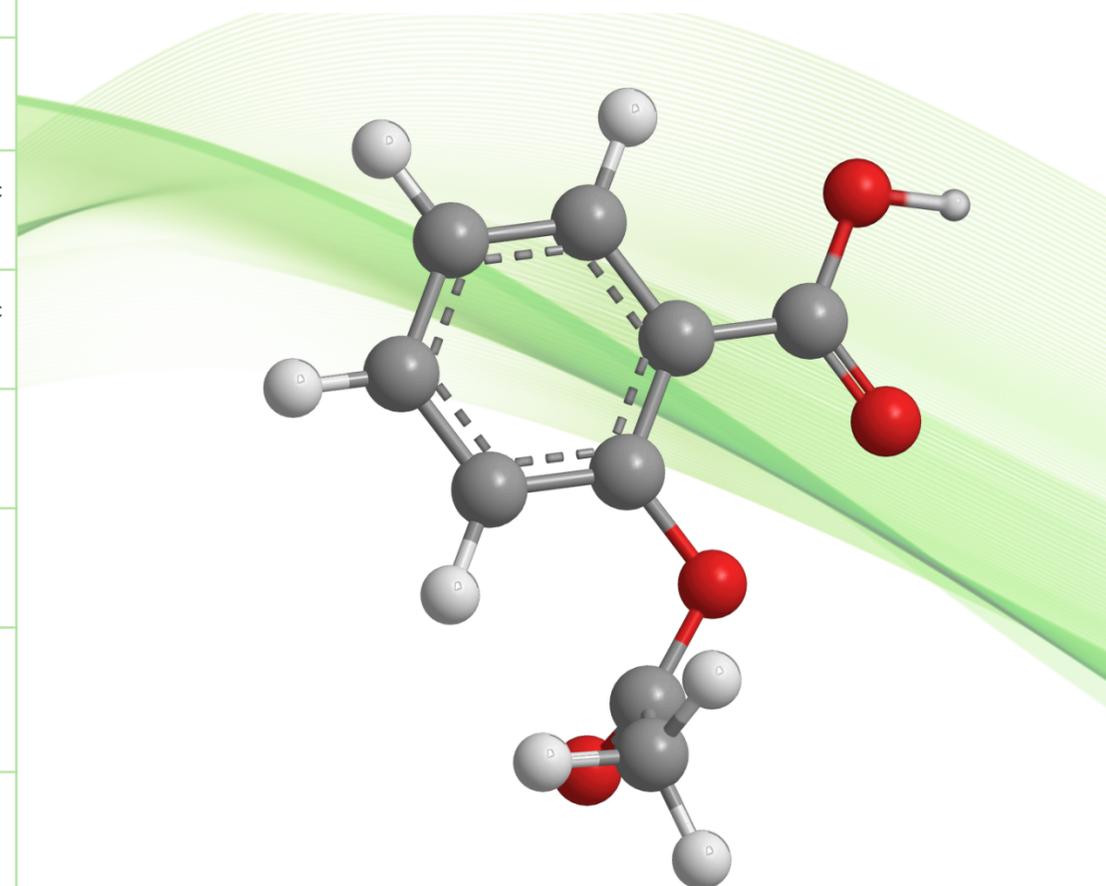
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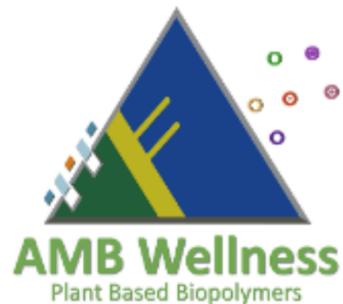
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Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Organic Acids	391,854 PPM	LC-UV/ Eurofins Analytik GmbH	Can positively impact the skin microbiome, leading to potential benefits like enhanced skin health, reduced inflammation, and antimicrobial protection.
Citric acid	169000 PPM	LC-UV/ Eurofins Analytik GmbH	These are intermediates in the Krebs cycle and act as quick energy substrates for skin-cell mitochondria.
Malic acid	120000 PPM	LC-UV/ Eurofins Analytik GmbH	Hydration (especially Lactic & Malic Acid): Lactic acid is a component of the skin's Natural Moisturizing Factor (NMF). Malic acid also acts as a humectant. They help the skin attract and retain moisture.
Lactic acid	51400 PPM	LC-UV/ Eurofins Analytik GmbH	Hydration (especially Lactic & Malic Acid): Lactic acid is a component of the skin's Natural Moisturizing Factor (NMF). Malic acid also acts as a humectant. They help the skin attract and retain moisture.
Succinic acid	26700 PPM	LC-UV/ Eurofins Analytik GmbH	Antimicrobial & Anti-inflammatory: Effective against acne-causing bacteria, helps control sebum, and soothes irritation. Cellular Renewal & Antioxidant: Promotes skin cell renewal and offers antioxidant protection.
Fumaric acid	8000 PPM	LC-UV/ Eurofins Analytik GmbH	Anti-inflammatory & Immune-Regulating: Known for its use in managing conditions like psoriasis by reducing chronic inflammation and abnormal keratinocyte renewal.
Keto-glutaric acid	8000 PPM	LC-UV/ Eurofins Analytik GmbH	Skin Structure & Hydration: Studies suggest AKG can increase the expression of molecules important for skin structure (like filaggrin) and hydration. Antioxidant & Energy Metabolism: Plays a role in cellular energy production and has antioxidant properties, potentially contributing to anti-aging effects.
Quinic acid	4210 PPM	LC-UV/ Eurofins Analytik GmbH	Antioxidant & Anti-inflammatory: Possesses significant antioxidant capabilities, helping to neutralize free radicals, Shows broad-spectrum antibacterial activities, may offer protective effects against DNA damage, enhanced Soothing and Anti-Inflammatory Profile, combined effect of more bioavailable aloe anti-inflammatory compounds (like sterols and polysaccharides) and the newly generated anti-inflammatory organic acids (e.g., certain SCFAs, succinic acid, fumaric acid) results in a more potent soothing and calming effect.
Acetic acid	1740 PPM	LC-UV/ Eurofins Analytik GmbH	Antimicrobial Properties: Acetic acid and formic acid have inherent antimicrobial (antibacterial and antifungal) properties, which can be beneficial for acne-prone.





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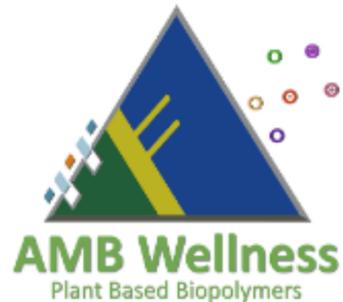
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Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Organic Acids	391,854 PPM	LC-UV/ Eurofins Analytik GmbH	Can positively impact the skin microbiome, leading to potential benefits like enhanced skin health, reduced inflammation, and antimicrobial protection
Butyric acid	250 PPM	LC-UV/ Eurofins Analytik GmbH	Anti-inflammatory & Barrier Function: Propionic and butyric acids, in particular, have demonstrated anti-inflammatory properties. They can help calm irritated skin and strengthen the skin barrier, reducing transepidermal water loss (TEWL) and protecting against environmental aggressors. Some research indicates SCFAs can influence lipid synthesis in the skin, further bolstering barrier integrity.
Formic acid	914 PPM	LC-UV/ Eurofins Analytik GmbH	Antimicrobial Properties: Acetic acid and formic acid have inherent antimicrobial (antibacterial and antifungal) properties, which can be beneficial for acne-prone skin or to help preserve the product itself. Formic acid is sometimes used for its skin regulating pH.
Glycolic acid	420 PPM	LC-UV/ Eurofins Analytik GmbH	Collagen Stimulation (especially Glycolic & Pyruvic Acid): Some AHAs, with their ability to penetrate, can stimulate fibroblast activity, leading to increased collagen and elastin production, improving skin firmness and elasticity over time. Pyruvic acid, an alpha-keto acid, is noted for its deep penetration and collagen-stimulating effects.
Propionic acid	250 PPM	LC-UV/ Eurofins Analytik GmbH	Microbiome Balance: SCFAs are crucial for maintaining a healthy skin microbiome.
Pyroglutamic acid	510 PPM	LC-UV/ Eurofins Analytik GmbH	Pyroglutamic Acid (PCA): Potent Humectant: A key component of the skin's NMF, PCA is highly effective at binding water in the stratum corneum, providing significant hydration and helping to maintain skin barrier integrity.
Pyruvic acid	460 PPM	LC-UV/ Eurofins Analytik GmbH	Collagen Stimulation (especially Glycolic & Pyruvic Acid): Some AHAs, with their ability to penetrate, can stimulate fibroblast activity, leading to increased collagen and elastin production, improving skin firmness and elasticity over time. Pyruvic acid, an alpha-keto acid, is noted for its deep penetration and collagen-stimulating effects.





AMBIOME™ SKC

Aloe fermented for skincare products

INCI NAME: LACTOBACILLUS/ALOE BARBADENSIS FERMENTED FILTRATE

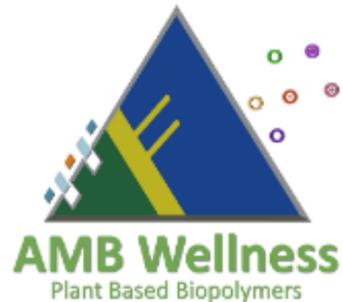
CHINESE INCI NAME: 芦荟叶汁发酵

CAS NUMBER: 85507-69-3

PRODUCT CODE: 1902

Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Saccharides	116,500 PPM	LC-RI/ Eurofins Analytik GmbH	They are highly hydrophilic and help to hold in water, which enhances the moisturizing abilities.
Fructose	43,000 PPM	LC-RI/ Eurofins Analytik GmbH	Fructose, glucose, and sucrose (simple carbohydrates) offer energy, while fermented aloe vera provides moisturizing and soothing benefits for skincare.
Glucose	60,000 PPM	LC-RI/ Eurofins Analytik GmbH	The combination can potentially enhance skin hydration, promote cell regeneration, and offer antioxidant protection.
Arabinose	8,500 PPM	LC-RI/ Eurofins Analytik GmbH	Arabinose and Sucrose (simple carbohydrates) offer energy, while fermented aloe vera provides moisturizing and soothing benefits for skincare.
Sucrose	5,000 PPM	LC-RI/ Eurofins Analytik GmbH	





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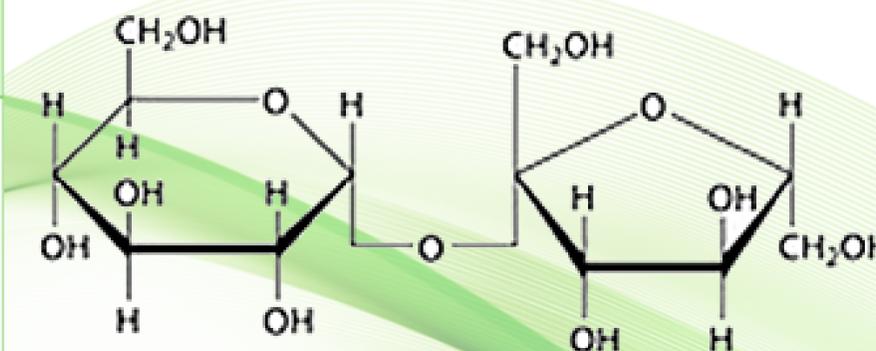
INCI NAME: LACTOBACILLUS/ALOE BARBADENSIS FERMENTED FILTRATE

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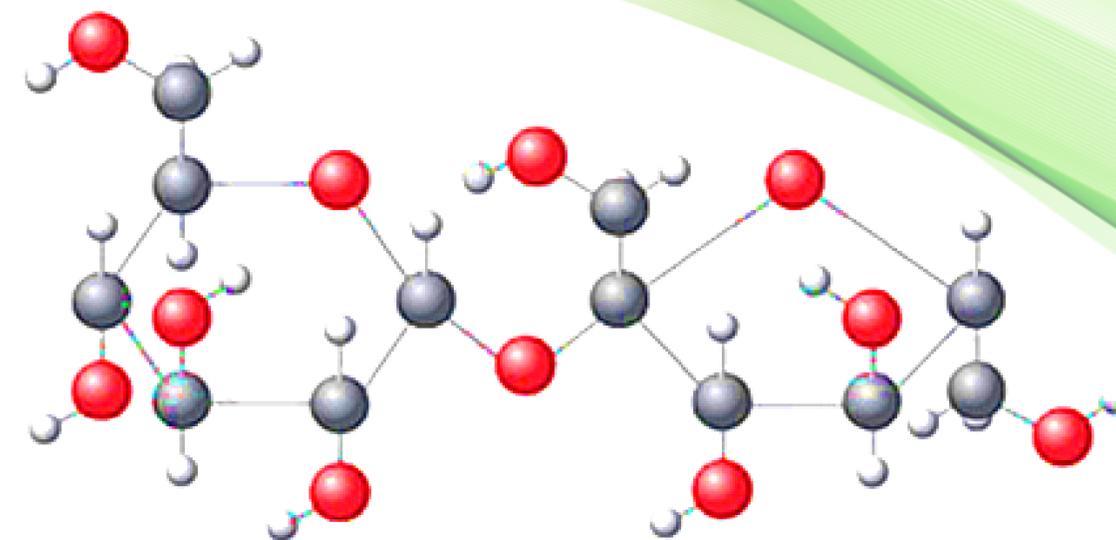
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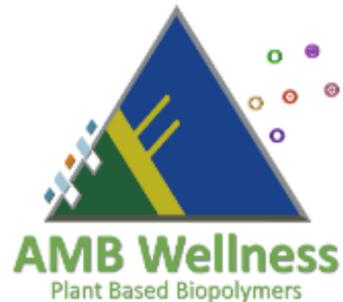
PRODUCT CODE: 1902

Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Phenols	1490 PPM	Spectrometry/ Laboratoire Phytocontrol	Phenols offer several benefits for the skin, including antioxidant protection, anti-inflammatory effects, and wound healing properties. These compounds help to combat free radicals, reduce inflammation, and promote skin regeneration. Anti-microbial Effects: Some phenols in aloe vera exhibit anti-microbial properties, helping to inhibit the growth of bacteria and fungi, which can be helpful in managing acne and other skin infections. Brightening: Some studies suggest that aloe vera can help brighten and lighten the skin, minimizing the appearance of darkspots.



Aloe Compound	Value COA (ppm)	Method/Laboratory tested	Activity
Total Polysaccharides	8%	GPC/ Custom Analytics	Low-chain carbohydrates naturally present in aloe vera - which can form a thin film on the skin and keep it moisturized, improve epidermal penetration (≤ 500 kDa) \rightarrow deep hydration and barrier effect that can benefit the skin microbiome.





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If you want to receive more information related to AMBIOME™ SKC Aloe Fermented, please do not hesitate to contact us.

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