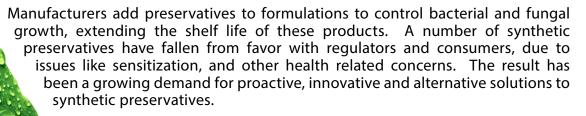


Antimicrobial Product List



Active Micro Technologies (AMT) has focused its efforts on the power of natural compounds, combining cosmetic functionality with antimicrobial activity to develop a range of multi-functional ingredients that can reduce or eliminate the need for conventional preservatives. **AMT** strives to continuously improve and add to its eco-friendly, nature-based product line while also welcoming the opportunity to custom develop alternative products for preservation and natural antimicrobial solutions.

AMTICIDE® COCONUT (M14003):

INCI (approved): Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract

Suggested Use Level: 2.0% - 4.0%

Suggested Applications: Moisturizing, Skin & Scalp Conditioning, Antifungal

Properties: Intended to be coupled with one of our broad-spectrum antimicrobials, such as Leucidal Liquid, or perhaps any preservative package that is lacking in protection, against yeast and mold. AMTicide® Coconut is developed by fermenting Cocos nucifera (Coconut) fruit with Lactobacillus to deliver a non-irritating and effective multifunctional product. This product can provide moisturizing and conditioning benefits in hair and skin care applications. Additionally, it is effective at preventing the growth of fungus, specifically yeast and mold, thus providing added protection to any formulation.

LEUCIDAL® LIQUID (M15008):

INCI (approved): Leuconostoc/Radish Root Ferment Filtrate

Suggested Use Level: 2.0% - 4.0%

Suggested Applications: Moisturizing, Skin & Hair Conditioning, Antimicrobial

Properties: Derived from *Leuconostoc kimchii*, the bacterium that has traditionally been used to make fermented Kimchi. This product consists of a peptide that is produced by the bacterial culture during the fermentation process which has been shown to have antimicrobial benefits. This ferment filtrate provides an effective combination of skin conditioning,

moisturizing, and antimicrobial properties.

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LEUCIDAL® LIQUID COMPLETE (M15024):

INCI (conforms): Leuconostoc/Radish Root Ferment Filtrate & Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract

Suggested Use Level: 2.0% - 4.0%

Suggested Applications: Moisturizing, Skin & Scalp Conditioning, Antimicrobial

Properties: This product combines the antibacterial power of Leucidal® Liquid and the antifungal power of AMTicide® Coconut to deliver an effective and convenient one step solution for broad spectrum protection! This highly marketable product provides moisturizing and conditioning benefits in hair and skin care applications. Additionally, this product provides effective protection against bacteria and fungi, including yeast and mold. Page 1 of 3

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Antimicrobial Product List

LEUCIDAL® LIQUID SF (M15019):

INCI (approved): Lactobacillus Ferment **Suggested Use Level:** 2.0% - 4.0%

Suggested Applications: Skin Conditioning, Antimicrobial

Properties: A probiotic based ingredient created by the fermentation of *Lactobacillus* in a defined growth medium. The specific manufacturing process yields a unique peptide with broad spectrum, antimicrobial and conditioning properties.

This ferment filtrate is salicylate-free.

LEUCIDAL® SF COMPLETE (M15025):

INCI (conforms): Lactobacillus Ferment & Lactobacillus &

Cocos Nucifera (Coconut) Fruit Extract **Suggested Use Level:** 2.0% - 4.0%

Suggested Applications: Moisturizing, Skin & Scalp Conditioning, Antimicrobial

Properties: This product combines the antibacterial power of Leucidal® Liquid SF and the antifungal power of AMTicide® Coconut to deliver an effective and convenient, salicylate-free, one step solution for broad spectrum protection! This highly marketable product provides moisturizing and conditioning benefits in hair and skin care applications as well as effective protection against bacteria and

fungi, including yeast and mold.



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LEUCIDAL® LIQUID PT (M15021):

INCI (applied/conforms): Lactobacillus Ferment

Suggested Use Level: 2.0%

Suggested Applications: Skin & Hair Conditioning, Antimicrobial

Properties: A broad-spectrum natural antimicrobial agent that compliments current trends for natural cosmetics and peptide technology. Leucidal® Liquid PT is a fermentation product of *Lactobacillus* in the presence of undecylenic acid, derived from castor oil (a sustainable vegetable resource). The result is a broad-spectrum antimicrobial product with

probiotic skin conditioning properties.



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PHYTOCIDE BLACK CURRANT POWDER (M16001):

INCI (approved): Ribes Nigrum (Black Currant) Fruit Extract

Suggested Use Level: 1.0% - 3.0%

Suggested Applications: Soothing, Conditioning, Antimicrobial

Properties: A spray dried powder extract of black currant, rich in ellagitannins and anthocyanins,

which provide effective antimicrobial and anti-inflammatory benefits.



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PHYTOCIDE ASPEN BARK EXTRACT POWDER (M16002):

INCI (approved): Populus Tremuloides Bark Extract

Suggested Use Level: 0.2% - 3.0%

Suggested Applications: Skin Conditioning, Antimicrobial

Properties: A spray dried powder extract rich in natural salicylates, which provide natural antimicrobial activity and can impart a smooth feel to the skin.

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Antimicrobial Product List

PHYTOCIDE ELDERBERRY OS (M16003):

INCI (approved): Sambucus Nigra Fruit Extract

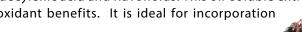
Suggested Use Level: 1.0% - 5.0%

Suggested Applications: Skin Conditioning, Antimicrobial

Properties: Elderberries are known to be rich in undecylenic acid and flavonoids. This oil-soluble extract

provides skin conditioning, antimicrobial and antioxidant benefits. It is ideal for incorporation

into oil based formulations.



SYNERCIDE ASIAN FUSION (M17001):

INCI (approved): Hexylene Glycol & Caprylyl Glycol & Wasabia Japonica Root Extract & Zingiber Officinale

(Ginger) Root Extract & Allium Sativum (Garlic) Bulb Extract & Water

Suggested Use Level: 1.0% - 2.0%

Suggested Applications: Skin Hydrating & Conditioning, Antimicrobial

Properties: An aqueous synergistic blend of traditional Asian botanicals with potent anti-aging, skin conditioning and

antimicrobial benefits.

SYNERCIDE HERBAL FUSION (M17002):

INCI (approved): Hexylene Glycol & Caprylyl Glycol & Origanum Vulgare Leaf Extract & Thymus

Vulgaris (Thyme) Leaf Extract & Rosmarinus Officinalis (Rosemary) Leaf Extract & Water

Suggested Use Level: 1.0% - 2.0%

Suggested Applications: Skin Hydrating & Conditioning, Antimicrobial

Properties: An aqueous synergistic blend of traditional herbs known for their ability to

provide skin conditioning and antimicrobial benefits.

ARBORCIDE® OC (M15010):

INCI (approved): Leuconostoc Ferment Filtrate

Suggested Use Level: 2.0% - 4.0%

Suggested Applications: Skin Conditioning, Antimicrobial

Properties: Derived from *Leuconostoc kimchii*, the bacterium that has traditionally been used to make fermented Kimchi. This ferment filtrate has shown a wide range of utility as a skin conditioner and antimicrobial agent for cosmetic and

personal care product formulations.



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^{*} Whole Foods is a US based grocery store trying to set a standard for natural personal care products. This denotation only applies to North America.