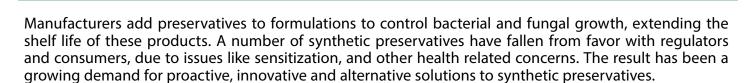


Antimicrobial Product List



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

CODE M14003

INCI NAME Lactobacillus & Cocos Nucifera

(Coconut) Fruit Extract

USE LEVEL 2.0% - 4.0%

APPLICATIONS Moisturizing, Anti-Fungal **FFFICACY**

ECOCERT/COSMOS Approved Whole Foods Compliant*



Intended to be coupled with one of our broad-spectrum antimicrobials, such as Leucidal® Liquid, or any preservative package that is lacking in protection against yeasts and molds. Created by fermenting Cocos nucifera (coconut) fruit with Lactobacillus to deliver a non-irritating, anti-fungal and effective multifunctional product.

Leucidal® Liquid

CODE M15008

INCI NAME Leuconostoc/Radish Root

Ferment Filtrate

USE LEVEL 2.0% - 4.0%

APPLICATIONS Moisturizing, Antimicrobial

FFFICACY

ECOCERT/COSMOS Approved Austalian Certified Organic Whole Foods Compliant*



Derived from Leuconostoc kimchii, a bacterium that has traditionally been used to make Kimchi. Created by the fermentation of Leuconostoc in a defined growth medium containing radish root, this specific manufacturing process yields a unique peptide with broad spectrum antimicrobial and conditioning properties.

Leucidal® Liquid SF

CODE M15019

INCI NAME Lactobacillus Ferment

USF I FVFI 2.0% - 4.0%

APPLICATIONS Moisturizing, Antimicrobial

EFFICACY

ECOCERT/COSMOS Approved



Derived from Lactobacillus acidophilus, a probiotic bacterium traditionally used to ferment milk into yogurt. Created by the fermentation of Lactobacillus in a defined growth medium, this specific manufacturing process yields a unique peptide with broad spectrum, antimicrobial and conditioning properties. This ferment filtrate is salicylate free.

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Antimicrobial Product List



Leucidal® Liquid PT

CODE M15021

INCI NAME Lactobacillus Ferment

USE LEVEL 2.0%

APPLICATIONS Skin Conditioning, Antimicrobial

EFFICACY © In-vitro

ECOCERT/COSMOS Approved



A fermentation product of *Lactobacillus acidophilus* in the presence of sustainable castor oil. The biotransformation of castor oil generates water soluble undecylenates, enhancing anti-fungal activity. The result is a broad spectrum antimicrobial product with probiotic and conditioning properties. Designed for use in pressed powder applications.

Leucidal® Liquid Complete

CODE M15024

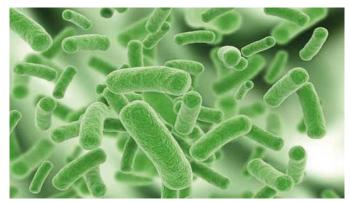
INCI NAME Leuconostoc/Radish Root Ferment

Filtrate & Lactobacillus & Cocos Nucifera (Coconut) Fruit Extract

USE LEVEL 2.0% - 4.0%

APPLICATIONS Moisturizing, Antimicrobial

ECOCERT/COSMOS Approved Whole Foods Compliant*



A 75/25 blend of the original Leucidal® Liquid with AMTicide® Coconut to offer a broad-spectrum antimicrobial in one product, preventing the growth of bacteria, yeasts and molds. This complex offers moisturizing and conditioning benefits in skin and scalp care applications as well protection to any formulation.

Leucidal® SF Complete

CODE M15025

INCI NAME Lactobacillus Ferment & Lactobacillus

& Cocos Nucifera Fruit Extract

USE LEVEL 2.0% - 4.0%

APPLICATIONS Moisturizing, Antimicrobial EFFICACY © In-vitro \$\sqrt{ln-vivo}\$

CY © In-vitro Win-vivo

ECOCERT/COSMOS Approved



A 75/25 blend of the original Leucidal® Liquid SF with AMTicide® Coconut to offer a broad-spectrum antimicrobial in one product, preventing the growth of bacteria, yeasts and molds. This complex offers moisturizing and conditioning benefits in skin and scalp care applications as well protection to any formulation.

PhytoCide Elderberry OS

CODE M16003

INCI NAME Sambucus Nigra Fruit Extract

USE LEVEL 1.0% - 5.0%

APPLICATIONS Antioxidant, Antimicrobial

EFFICACY **©** *In-vitro*

ECOCERT/COSMOS Approved Australian Certified Organic



Elderberries are known to be rich in undecylenic acid and flavonoids. These phytocompounds can provide effective antimicrobial and antioxidant benefits. This natural oil-soluble extract can be used to enhance both antimicrobial and conditioning properties in oil based formulations, which may be at risk of microbial contamination during use.

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Antimicrobial Product List



PhytoCide Black Currant Powder

CODE M16001

INCI NAME Ribes Nigrum (Black Currant) Fruit Extract

USE LEVEL 1.0% - 3.0%

APPLICATIONS Antioxidant, Antimicrobial

EFFICACY © In-vitro

ECOCERT/COSMOS Approved



Black currants are known to be rich in ellagitannins and anthocyanins. These phytocompounds can provide effective antimicrobial, antioxidant and anti-inflammatory benefits. This natural, multifunctional, spray dried powder can be used to enhance both antimicrobial and conditioning properties within a formulation.

PhytoCide Aspen Bark Extract Powder

CODE M16002

INCI NAME Populus Tremuloides Bark Extract

USE LEVEL 0.2% - 3.0%

APPLICATIONS Exfoliating, Antimicrobial EFFICACY © In-vitro VIn-vivo

ECOCERT/COSMOS Approved



Aspen Bark is known to be rich in natural salicylates. These can provide effective antimicrobial activity as well as improving cellular renewal for a smooth and even skin texture. This natural, multifunctional, spray dried powder can be used to enhance both antimicrobial and conditioning properties within a formulation.

SynerCide Asian Fusion

CODE M17001

INCI NAME Hexylene Glycol & Caprylyl Glycol &

Wasabia japonica Root Extract & Zingiber officinale (Ginger) Root Extract & Allium sativum (Garlic) Bulb Extract & Water

USE LEVEL 1.0% - 2.0%

APPLICATIONS Skin Conditioning, Antimicrobial



A synergistic blend of wasabi, ginger and garlic. These traditional Asian botanicals can provide potent anti-aging, conditioning and antimicrobial benefits. This multifunctional aqueous extract can be used to enhance both antimicrobial activity and cellular metabolism within a formulation.

Arborcide® OC

CODE M15010

INCI NAME Leuconostoc Ferment Filtrate

USE LEVEL 2.0% - 4.0%

Organic Compliant



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.

* 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.

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