

PINNA LEAF NP™

THE NEXT GENERATION IN PRESERVATIVE TECHNOLOGY

A Robust Broad-Spectrum
Preservation System
Anti-Microbial,
Gram-Negative, Gram Positive,
Yeast and Mold Resistant.

The Power of
Natural BioZyme™ Blends

combined with

Botanical Active compounds Kill and
Inhibit the growth of Microorganisms.



PINNA LEAF NP™ is a blend of specific
active **BioZymes™** and Botanical actives
including Antimicrobials:

Bixa orellana seed extract
American Saffron

Kalanchoe pinnata leaf extract
The Wonder Plant or Sacred Leaves
from India & Madagascar
Provide Anti-Fungal and Anti-Viral
Resistance

BioZymes™
PROTEASE, LIPASE



**A PARADIGM SHIFT
FROM
TOXIC CHEMICAL PRESERVATIVES
TO
NATURAL BOTANICAL BLENDS**

Highly effective, Non-irritating,
Formula Stabilizing, Consumer Safe,
Environmentally Neutral,
100% Naturally Pure
Derived from Sustainable Global
Biodiverse Botanical Sources



No Halogenated Compounds
No Quaternary Ammonium
No Formaldehyde Donors
No Phenoxyethanol
No Isothiazolinones
No Animal Sources
Non-Recombinant
No Parabens
No GMO's

BBSC
BIOTECHNOLOGY BUSINESS
SOLUTIONS CORPORATION

BIOZYMES™
A BIOFOS BIOTECHNOLOGY

Exclusively Distributed By:

 **Integrity Ingredients Corporation**
"Your Innovation Partner"

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(310) 782-0282



PINNA LEAF NP™

POWERED BY BIOZYMES™

BioZymes™ are Stable, Non-irritating, Pure, Active Enzymes, extracted using the Exclusive Sustainable BioFos™ Physiocell Fractionation Process.

The Power of BioZymes™ Boost Botanical Activity **hundreds of times**, providing **Optimal Performance**, allowing formulators to use smaller percentages of expensive botanical actives.

This is a significant factor in virtually eliminating irritation and delivering natural cost effective products.



QUALITY CONTROL - QUALITY ASSURANCE

PINNA LEAF NP™ meets USP-5 I Challenge Test Standards.

Botanical activity is monitored throughout the Physiocell process assuring quality. A chain of custody is maintained on all Botanical Extracts and BioZyme™ plant sources.

INGREDIENT LIST

INCI NAME: *Bixa orellana* seed extract, *Kalanchoe pinnata* leaf extract, Protease, Lipase

1-Antimicrobial	2 -Anti Fungi	3 -Antiviral	4- BioZymes
BIXA ORELLANA SEED EXTRACT KALANCHOE PINNATA LEAF EXTRACT	KALANCHOE PINNATA LEAF EXTRACT	KALANCHOE PINNATA LEAF EXTRACT	PROTEASE LIPASE

EASE OF USE

Recommended Use level, 2%. (can vary between 1% & 3% depending on formula). Technical support available.

PINNA LEAF NP™ is a stable drop in blend that needs no special handling or refrigeration.

Stability: Hundreds of formulas launched in South America over a decade with no stability or irritation issues.

Dozens of formulas have been developed with U.S. companies and challenge tested, (USP-5 I challenge test). Passed with no issues.

Soluble in water and emulsions at room temperature and is partially soluble in oils.

Environmentally neutral, derived from sustainable global biodiverse sources.

Formula stabilizing, preventing changes in odor, viscosity and color.

pH ranges from 4.0 to 10.

Use: Raw material for cosmetics.

Description: Low odor, yellowish transparent liquid.

Concentration of protein: 470 mg/dl minimum.

CAS: 89957-43-7, N/A, 9001-92-7, 9001-62-1



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