Initial SupremeAG™ Trial at Southern University Agricultural Research (SURAEC) Provides Invaluable Insight into the Efficacy of SupremeAG™ Part 2 of 3

LETTER TO THE SHAREHOLDERS

November 5, 2025

Napoleonville, LA IFUS:OTCID

In our November 3, 2025 update, we began with a quote from Dr. Robert E. Pettit, Emeritus Associate Professor Texas A&M University, who published a treatise: "ORGANIC MATTER, HUMUS, HUMATE, HUMIC ACID, FULVIC ACID AND HUMIN: THEIR IMPORTANCE IN SOIL FERTILITY AND PLANT HEALTH."

https://www.humicacid.org/wp-content/uploads/2018/07/humic-substances-e1587220456345.jpg

The Global Healing Center agrees with Dr. Pettit's contention by stating, "In summary, humic substances play a crucial role in enhancing soil quality, promoting plant growth, and supporting sustainable agricultural practices, making them invaluable for effective soil management."

Furthermore, Cornell University scientists write about "Returning essential nutrients to the soil." Their team suggests that, **"Degraded lignin nourishes plants by returning essential nutrients to the soil, which is crucial for nutrient cycling and maintaining the balance of ecosystems.** The breakdown of lignin by microorganisms like white-rot fungi and brown-rot fungi releases nutrients such as carbon, nitrogen, and phosphorus, which are vital for plant growth and health. These nutrients are then utilized by plants to grow, develop, and reproduce, contributing to the overall health and sustainability of the ecosystem." ("The Effect of Lignin on Biodegradability, Tom Richard, Cornell Composting, Science & Engineering, https://www.compost.css.cornell.edu/calc/lignin.html)

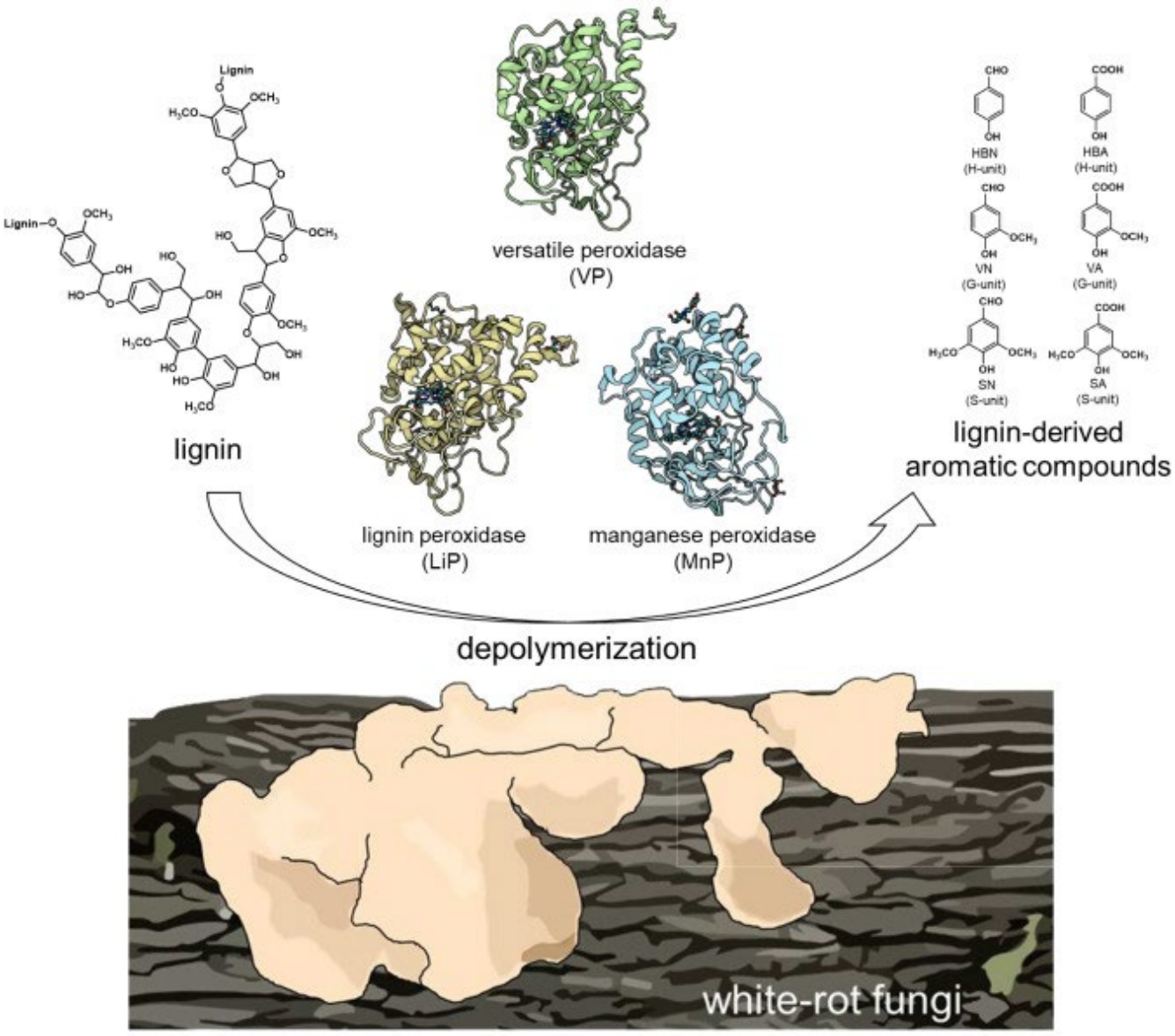
Researchers at NC State BioResources write of providing plants "with essential nutrients". They tell us that, **"The degradation of lignin by white rot fungi nourishes plants by providing them with essential nutrients.** White rot fungi are capable of breaking down lignin, which is a major component of wood, into simpler organic compounds that plants can utilize.

This process involves the use of enzymes such as lignin peroxidases and laccases, which are secreted by the fungi and play a crucial role in the breakdown of lignin. The resulting organic compounds are then absorbed by the plants, providing them with carbon, which is a vital energy source for growth and development.

Additionally, the fungi also incorporate carbon from lignin-derived compounds, using both cellulose and lignin as food and building material. This dual role of white rot fungi in the decomposition process and their contribution to plant nutrition highlights their importance in the ecosystem and their potential for biotechnological applications."

> Source: (Jin, L., Zeng, G., Chen, H., Wang, L., Ji, H., Lin, S., Peng, R., and Sun, D. (2021). "Mechanism of lignin degradation via white rot fungi explored using spectral analysis and gas chromatography-mass spectrometry," BioResources 16(3), 5494-5507)

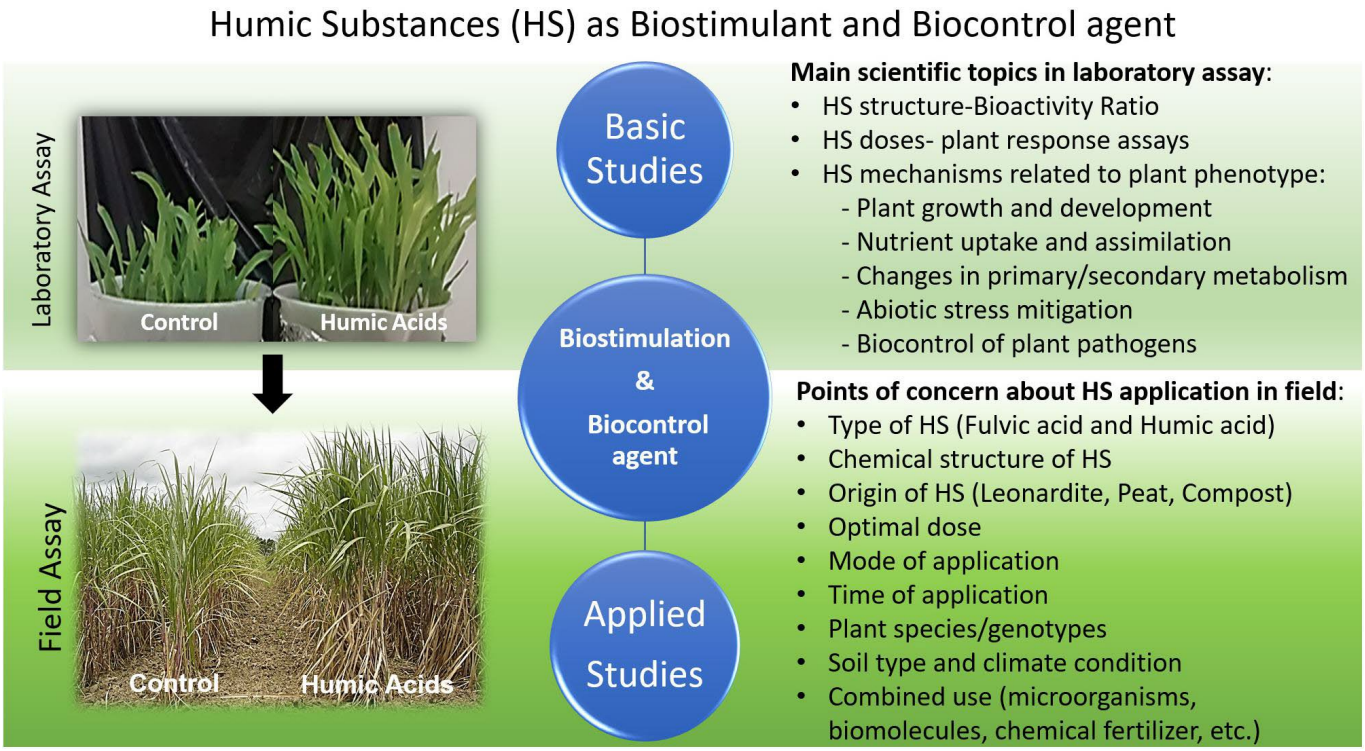
These concepts are illustrated in the diagram below, which illustrates the degradation, but more importantly the depolymerization of lignin by White Rot Fungi.



It would seem that the degradation and depolymerization of lignin by White Rot Fungi seems to be "supercharged" (in a manner of speaking) when Sugarcane Bagasse is transformed into SupremeAG™. The result of this is believed to produce (beside water and Carbon Dioxide) a cascade of beneficial nutrients and phytochemicals necessary for the production of healthy plants. When these plants are consumed by humans or animals, they too receive the benefits of

nutrients and phytochemicals enhanced by Humic Substances, macro- and micro-minerals, and the synergetic effects created by and found in natural substances.

This contention is supported by research performed on Sugarcane Bagasse and the impact of Humic Substances on the growth and performance of the Sugarcane plant itself.



Source: fpls-11-00426-g001.jpg (2005×1093)
https://www.frontiersin.org/files/Articles/530151/fpls-11-00426-HTML-r2/image_m/fpls-11-00426-g001.jpg

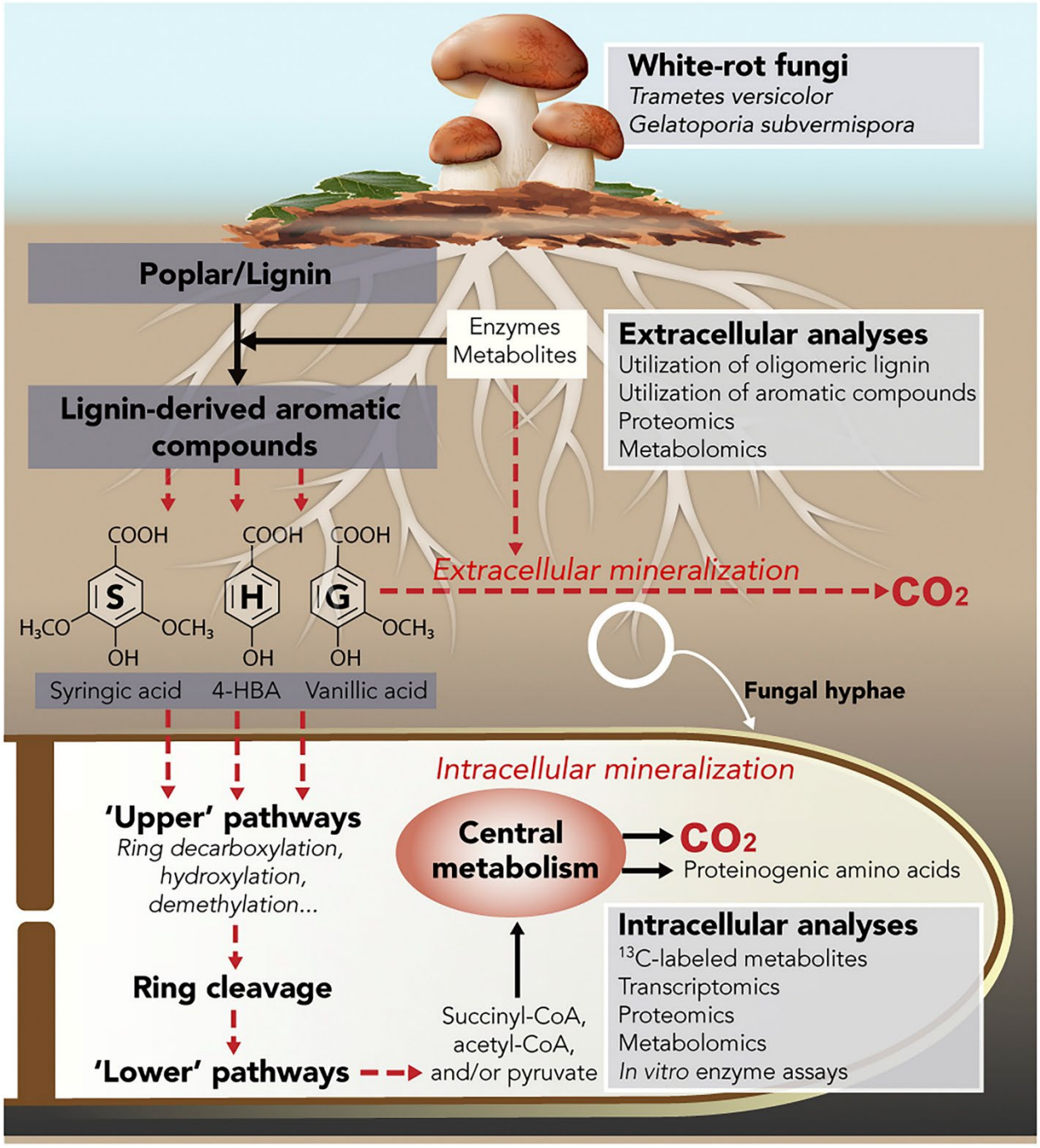
Additionally, "…sugarcane bagasse can degrade into humic substances. Humic and fulvic acids are produced from sugarcane bagasse through processes like Solid-State Fermentation (SSF) and Submerged Fermentation (SmF). The decomposition of sugarcane bagasse can lead to the extraction of humic acid, which is beneficial for soil health and plant growth."

H.Ghanavatia, et.al, Sharif University of Technology, Scientia Iranica Transactions F:Nanotechnology, http://scientiairanica.sharif.edu, ScientiaIranicaF(2022)29(6),3554{3569

"The process of fermentation enhances the production of humic substances, making sugarcane bagasse a valuable resource for organic farming and soil improvement."

Mwita S C, Banyikwa A, Maheswara R V. Soil Amendments with Sugarcane Bagasse and its Effect on Soil Humic Acid Contents and Chinese Cabbage Growth Components. Agri Res& Tech: Open Access J. 2019; 21(3): 556166. DOI: 10.19080/ARTOAJ.2019.21.556166

Furthermore, in a separate study performed by Carlos del Cerro, et.al, the effect of White Rot Fungi's performance in nature was demonstrated as shown below:



Source: “Intracellular pathways for lignin catabolism in white-rot fungi” written by Carlos del Cerro, et.al in "The Proceedings of the National Academy of Sciences: Systems Biology/Biological Sciences," Feb. 23, 2021

In combination with the formation of Humic Substances, the IFUS Scientific Team contends that trials on qualifying plants, trees, and shrubs are nourished by SupremeAG™ , resulting in improved resistance to disease, improved yield of growth/foliage/blooms/fruit/nuts/vegetables, reduced water/pesticide/herbicide requirements, and more.

Hence, our IFUS Scientific Teams begs the question: How does IFUS offer tangible and statistical proof that supports the efficacy of SupremeAG™, while also demonstrating its limitations?

In a study performed by Mwita S C, Banyikwa A, Maheswara R V., Soil Amendments with Sugarcane Bagasse and its Effect on Soil Humic Acid Contents and Chinese Cabbage Growth Components. Agri Res& Tech: Open Access J. 2019; 21(3): 556166. DOI: 10.19080/ARTOAJ.2019.21.556166, the Abstract states:

"Sugarcane bagasse (SCB) which is a waste byproduct of sugarcane industry can be used as soil amendments to improve crop yield and provide reasonable economic means to recycle these wastes in an environment friendly manner. In this study experiments were conducted to test the rate of production of humic acid during the decomposition of SCB for 30 days and effect of SCB amendments on growth components of Chinese Cabbage (Brassica rapa, subsp. pekinensis). Humic acid were extracted using the classic alkali/acid fractionation method while FT-IR method was used to characterize humic acid. **The results were shown that higher amount (0.2779g) of humic acid was extracted after 30 days, and small amount (0.0053g) was extracted from 0 day of SCB decomposition.** The amount of humic acid extracted from SCB is significantly increased with respect to the time for decomposition of SCB. Growth performance of Chinese cabbage was recorded in terms of increase in plant height above ground, fresh and dry weight, root length, root fresh and dry weight. The experiment was conducted by 3 x 3 factorial designs employing three concentrations of SCB (0%, 2%, 5% and 10 %). The results showed that there is significant increase in plant growth components with increase of SCB concentration. It is recommended that application of SCB 10% will result in enhanced yield of Chinese cabbage. This may be due to high amount of humic acid produced by SCB after decomposition which leads to improve other soil characteristics."

Along with the U.K Strawberry Trial, another SURAEC Trial is in the design phase. IFUS offers the following for consideration:

1. Select plants (those that produce high levels of flavonoids vs indoles and are iron- and acid-loving varieties) that thrive when mulched and/or soil-amended with SupremeAG™ when reconciled to desired performance outcomes:

    a. Tomatoes
    b. Watermelon, Cantaloupe, Honey Dew
    c. Blackberries
    d. Bell Peppers
    e. Green Beans
    f. Citrus Trees
    g. Roses
    h. Nut Trees
    i. Fruit Trees like Peaches, Pears, Plums, Cherries, Apricots, etc.
    j. Pansies
    k. Bulbs like Amarylis, Tulips, Narcissus, etc.
    l. Lillies like Day Lillies, Trumpet, Longiflorum, etc.
    m. Grapes
    n. Cannabis
    o. Pine Trees
    p. Crepe Myrtles
    q. Azaleas and similar flowering shrubs
    r. Magnolias
    s. Maple Trees
    t. Legumes

2. Amend the soil with Best Garden Practices for the respective varietal selected. Add SupremeAG™ at about 25% of soil mixture.

3. Mulch 1-3” thick based on the respective plant with SupremeAG™.

4. Reduce watering so as not to drown the plants. Determine soil moisture content per Best Gardening Practice for the respective varietal.

5. Replace mulch if washed or blown away by weather conditions.

6. Also, for points of contrast, select plants that IFUS contends struggle when SupremeAG™ is applied. SURAEC is considering planting the “Greens” from the previous trial in a more controlled environment. That data would be invaluable in answering questions like:

    a. Did the plants actually thrive without the threat of “predation?”

b. How did the difference in “terroir” (to coin the phrase from our friends who make wine) affect the viability of the plants where SupremeAG™ was applied?

c. Were stronger / more pronounced odors detected? Or did these diminish?

d. Plus, other pertinent questions that would improve this research trial design.

Also, soil amendment should be considered with aged SupremeAG™ and mulched with newer SupremeAG™. Our instincts are that this could be a winning combination as visual evidence suggests these two SupremeAG™ products are quite different, yet both of value.

A new trial is underway with pansies per the pictures below. The beds were eroded by Hurricane Francine in September 2024.

The soil has been amended with SupremeAG™ and a layer of the material (both from the beds shown above) has been applied. Also, please note these are discounted Pansies, as September was nearly 8 degrees F warmer than usual and October nearly 5 degrees F warmer than normal. Many of the days have been in the Upper 80’s F, with some days in the 90’s F. The U.V. Index has also been higher than normal. Hence, Pansies have NOT flourished here as it is simply too damn hot!

Also, you will notice strapping on the trees as these were toppled several times since planted. Each has been basically replanted with SupremeAG™ being added to the root-ball area of the tree / shrub.

Picture A: Discounted Pansies planted and mulched with SupremeAG™

Picture B: Discounted Pansies Planted and Mulched in / with SupremeAG™

Picture C: Half Price for Half Melted Pansies

Lastly, a customer in Canada sent in these photos. A family member overwatered a Hibiscus. (See Picture I)

The Canadian Customer re-potted the Hibiscus with pure SupremeAG™. Please note the new buds within 4 weeks of repotting (See Picture II).

Week 5 progress is shown in Picture III. Please note the recovery continues with new growth on a plant once on death's door.

This begs the question as to the application of SupremeAG™ as it ages. Observations are suggesting the product is demonstrating a broader range of application with age.

Finally, as reflected in other reports of plants being stabilized after being uprooted by severe winds, as well as plants being shocked by an officially declared Blizzard in Southeast, LA (the first in recorded history), **SupremeAG™ when applied as a soil amendment and mulch is being shown to improve the survival rates of plants, trees, and shrubs in distress.**

"Our IFUS Scientific Teams are working non-stop to keep up with requests for information on SupremeAG™. Additionally, they are working to provide technical guidance on the emerging science so as to create successful outcomes of this IFUS Product Line and Technology. I am most pleased by their efforts, which are creating Scientific Truth that supports our marketing and sales efforts. This is evidenced by this 3-part update, which includes science, literature research, data, observations, and guidance," said Marc Walther, CEO of Impact Fusion International.

Back to work!

For our customers of both Intact Digest™ and Intact Endurance™ you may now send your testimonials to:

mwalther@impactfusionintl.com We can also be reached at 1-800-775-4130 seven days a week.

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