

## Part 2: Efficacy of Nutri-Mastic™ & SGP+™ on Bovine Hepatic Function

### LETTER TO THE SHAREHOLDERS

August 13, 2025

Napoleonville, LA IFUS:PK

In a Part 1 Shareholder Update released on August 4, 2025, we updated you on plausible scientific evidence as to the efficacy of Nutri-Mastic™ in promoting healthy liver function. At that time, we committed to you that another update would follow, that being on the Efficacy of Nutri-Mastic™ & SGP+™ on Bovine Hepatic Function.

To that end, please find the update below. Further content on this email can be found on the IFUS Website at <https://impactfusionbrands.com> at the Menu / Resources / Knowledge Base / Studies. There you will find ever-updated White Papers being compiled by our IFUS Scientific Team.

From the IFUS White Paper titled, " Part 1 of 5: Plausible Scientific Evidence of the Efficacy of SGP+™ in Bovine Herd Performance through Bovine Ration Management", we begin with:

**IFUS Point 5h:** Improvements of beef hepatic (liver) function from plant-based phytochemicals to include those contained in Sugarcane Bagasse, Chios Mastic Gum, and Carob (ALL active ingredients in SGP+™)

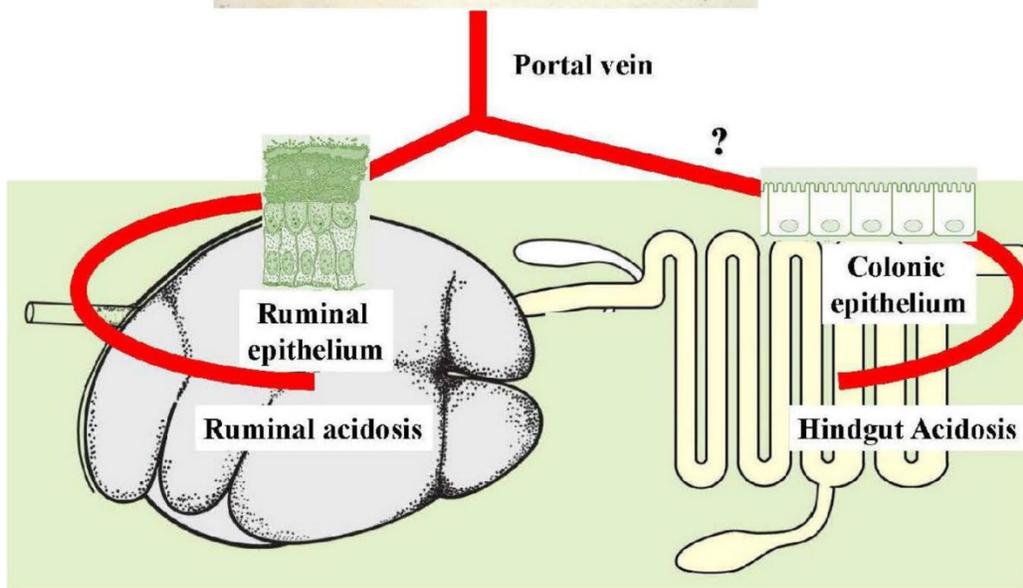
**IFUS Point 5h(1):** “So, in general, a live beef weighing 1,000 pounds would initially weigh around 600 pounds on the rail or hanging weight. Boxed weight then, will be about 50% of the hanging weight once all the fat, bones, and waste is removed and you take into consideration the amount of evaporation that took place.” <https://www.thefattedcalflc.com/post/beef-breakdown-yield>

**IFUS Point 5h(1-1):** “Severe liver abscesses in feedlot cattle can lead to a 5% reduction in average daily gain.”  
<https://www.canr.msu.edu/news/industry-concerns-with-liver-abscesses-in-finishing-cattle>

**IFUS Point 5h(1-2)** Per, Image 1, we find images of a diseased Cow liver with links to Ruminal Acidosis per “Abstract: Liver

abscesses are a bacterial infection, which occurs because of entry, via portal vein, of pyogenic bacteria into the hepatic parenchyma. Liver abscesses are a polymicrobial infection; however, *Fusobacterium necrophorum*, a ruminal bacterium, is the primary etiologic agent. Ruminal acidosis disrupts the protective barrier function of the ruminal epithelium and facilitates entry and colonization of *F. necrophorum* in the ruminal wall and subsequent entry into the portal circulation. Virulence factors of *F. necrophorum* contribute to the evasion of host defense mechanisms and cause tissue damage to set up an infection in the liver." (The potential role of the hindgut in pathogenesis remains to be investigated." Amachawadi RG, Nagaraja TG. Pathogenesis of Liver Abscesses in Cattle. *Vet Clin North Am Food Anim Pract.* 2022 Nov;38(3):335-346. doi: 10.1016/j.cvfa.2022.08.001. PMID: 36243456.)

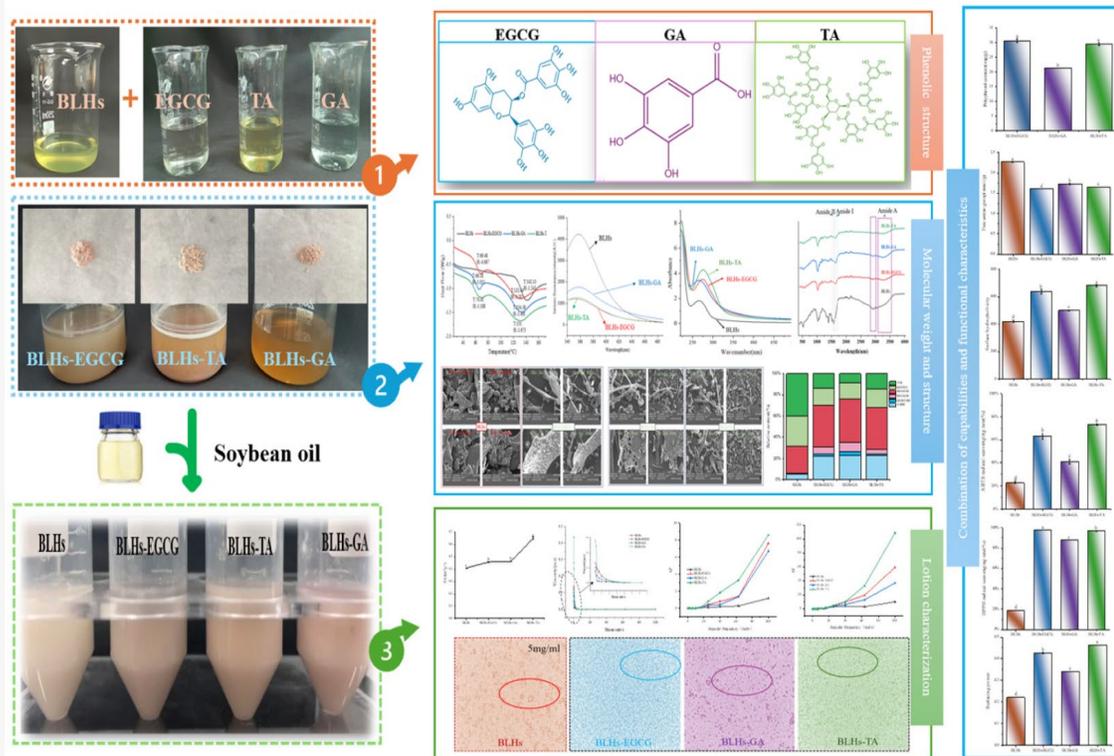
Image 1:



IFUS Point 5h(1-3): We then find a plausible remedy for the condition being shown in IFUS Point 5h(1-2). Duan, Y.; Yang, X.; Shen, R.; Zhang, L.; Ma, X.; Qu, Y.; He, L.; Tong, L.; Han, G. From By-Products to Promising Bifunctional Food Ingredients: Physicochemical Characterization and Antioxidant and Emulsifying Improvement Evaluation Based on the Synergy of Phenolic Acids, Flavonoids and Tannins with Bovine Liver Hydrolysates. *Foods* 2025, 14, 2225. <https://doi.org/10.3390/foods14132225>

Conclusions: "The results showed that the interaction system of EGCG, GA, TA and BLHs provided an effective intervention strategy to enhance the antioxidant and emulsifying properties of bovine liver hydrolysate. TA exhibited greater BLH binding capacity and antioxidant and emulsifying activities than EGCG or GA. In addition, with the addition of polyphenols, the complexes all showed some consistent patterns, such as the increase in molecular weight; the action of polyphenols with BLHs increased the site resistance and repulsive force between droplets, which reduced the interfacial tension at the oil–water interface, prevented the aggregation of droplets and significantly altered the interfacial rheological properties, etc. These findings provide a basis for the binding of hydrolysates and phenolics. However, there is still a lack of validation in terms of site of action and antioxidant application, emulsification stability, etc. Therefore, the next step is to focus on the experimental content and activity validation of the binding site to improve the experimental system and provide a reference for further extension of the application. (See Figure 1)."

**Figure 1.** Experimental design process chart (Notes: 1. Solutions of bovine liver hydrolysate and three polyphenols; 2. Preparation of the solutions of three complexes and their freeze-drying sample; 3. Preparation of three complex solutions into crude emulsions; Lowercase letters represent significant differences among samples).



"These studies published by scientists unaffiliated with Impact Fusion coupled with Herd Performance results being provided to IFUS from Ranchers and Dairymen applying SGP+™ as part of their respective Ration Management Strategy, continue to link plausible scientific explanations to Herd Performance Claims. The science is complex as it is clearly interrelated. That is, the improvement in Herd Scores, hide quality, herd health, Average Daily Weight Gain (ADWG), Forage Analysis, IVTD, meat quality and taste, improved heat tolerance, transformation of Manure Pats to Score 3, and more...all coupled with reductions in infant mortality, flies on hides and manure pats, overall costs, and more...are reinforcing indicators that the livers of the cows must also be

improving. Where more science and Carcass Analysis is required to make emphatic statements, IFUS is driving the case for these added studies. Until then, our customers are claiming that your company is providing them cost-effective and eco-friendly solutions that reduce the stress on their businesses and herds. We are encouraging our customers to get pictures of the livers from butchered cattle from their respective herds to offer this added proof," said Marc Walther, CEO of Impact Fusion International. "Until then, your company will continue to collect herd results from these ranchers and dairymen, and continue to solicit studies from degreed and certified professionals to substantiate the claims. Additionally, your IFUS Scientific Team will continue to review published studies in support of revealing science-based facts of your company's product line."

Back to Work! Feed the World!

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

[mwalther@impactfusionintl.com](mailto:mwalther@impactfusionintl.com) We can also be reached at 1-800-775-4130 seven days a week.

About Impact Fusion International Inc.

Impact Fusion International, Inc. is in the business of marketing products in the "Health and Wellness" sector of all international markets. It is the company's mission to invent, develop and market these proprietary products worldwide for the health and well-being of humans and animals.

The information contained in this release includes some statement that are not purely historical and that are "forward-looking statements." Such forward-looking statements include, but are not limited to, statements regarding our and their management's expectations, hopes, beliefs, intentions or strategies regarding the future, including our financial condition, results of operations. In addition, any statements that refer to projections, forecasts or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking statements. The words "anticipates," "believes,"

"continue," "could," "estimates," "expects," "intends," "may," "might," "plans," "possible," "potential," "predicts," "projects," "seeks," "should," "would" and similar expressions, or the negatives of such terms, may identify forward-looking statements, but the absence of these words does not mean that a statement is not forward-looking. The forward-looking statements contained in this release are based on current expectations and beliefs concerning future developments and the potential effects on the parties and the corporate and administrative

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