



Value Proposition for Food and Beverage Processors

Elimination of Sludge Disposal from
Wastewater Treatment Facilities



Nutrinsic Technology

Nutrinsic is a pioneer in providing commercial nutrition solutions through the upcycling of unused nutrients.

By recovering nutrients, we help food and beverage processors deliver clean water to the environment and eliminate the need to dispose of waste. This process creates an environmentally and economically sustainable source of premium protein for animal nutrition.

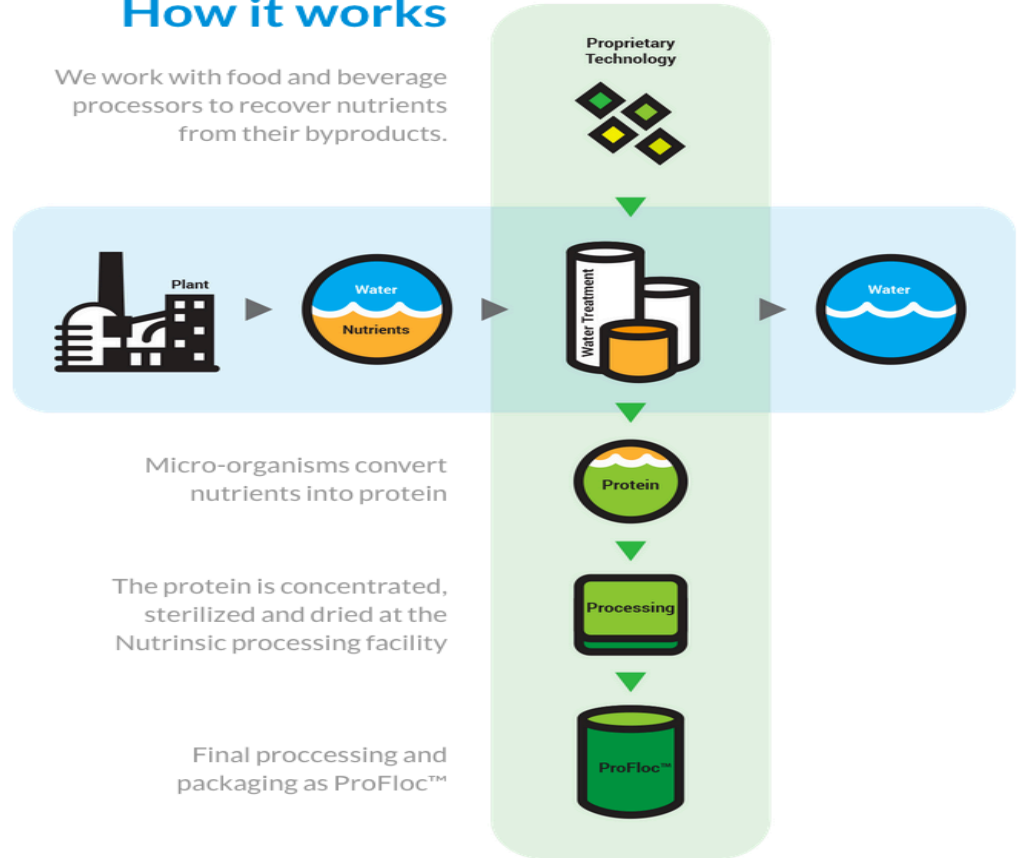
Overview

- Nutrinsic owns patented technology to convert organic material found in food/beverage wastewaters into a high quality protein ingredient for animal feeds – thereby eliminating sludge 100 %
- Nutrinsic's process makes efficient use of existing resources and infrastructure. Food/beverage manufacturers win:
 - No capital requirement
 - Reduced operating expenses
 - Environmental benefits
- Nutrinsic benefits from sale of protein ingredient
- Nutrinsic's process fully proven on various wastewaters

Our Patented Process

How it works

We work with food and beverage processors to recover nutrients from their byproducts.



Business Model

- Nutrinsic forges long-term, mutually beneficial relationships with food/beverage manufacturers
- Nutrinsic provides:
 - Technology and know how
 - Capital to construct harvest system
 - Full operational responsibility for biological and harvest systems
 - Full cost responsibility for additional nutrients and harvest system expenses
 - Full responsibility for meeting EPA effluent quality limits
 - Full responsibility for eliminating sludge output
- Food/beverage manufacturer provides:
 - Access to wastewater treatment system and space to co-locate harvest system
 - Nutrients contained in wastewater free of charge
 - Cost responsibility (as before) for:
 - Maintenance and upkeep of wastewater facility
 - Utilities, labor, etc. to run wastewater facility

Food/Beverage Manufacturer Benefits

- Elimination of costs
 - Disposal of wet sludge
 - Chemicals, labor, energy and repairs related to dewatering/handling sludge
 - Transportation and tipping fees
 - Reduction in electricity cost for aerating basins
- Reduced management burden
 - Nutrinsic will assure effluent quality
 - No record keeping for sludge disposal
- Avoided capital in the future
 - For alternative sludge disposal methods (e.g. anaerobic digestion)
 - Nutrinsic process provides about 20 % increase in WWT capacity
- Improved environmental image
 - Cleaner water effluent, no sludge odor complaints, reduced GHG emissions and conservation of natural resources - sustainability

Effluent Quality Performance

- In many cases Nutrinsic's process improves effluent quality
- Proven performance vs. current baseline

Example of trial results at a major beverage processor

| Parameter (mg/l) | Existing Protocol | Nutrinsic Protocol |
|----------------------------------|-------------------|--------------------|
| Biological O ₂ demand | 14.3 | 7.3 |
| Total suspended solids | 28.5 | 7.4 |
| NH ₃ -Nitrogen | 0.3 | 0.7 |
| NO ₃ -Nitrogen | 12.8 | 5.8 |
| Total Nitrogen | 13.1 | 6.5 |
| Total Phosphorous | 6.5 | 1.3 |

Demonstrated Effectiveness

- Demonstrated ability to make high quality protein from food and beverage wastewaters

Sludge Protein indicates level with existing protocol, Nutrinsic Protein indicates levels after implementation of new protocol with several plant wastewater streams

| Facility Type | Sludge Protein | Nutrinsic Protein | Facility Type | Sludge Protein | Nutrinsic Protein |
|---------------|----------------|-------------------|---------------|----------------|-------------------|
| Brewing | 32 % | 65 % | Corn Mill | 39 % | 66 % |
| Brewing | 42 % | 65 % | Corn Mill | 41 % | 61 % |
| Brewing | 12 % | 63 % | Corn Mill | Unknown | 69 % |
| Potato | 22 % | 66 % | Corn Mill | 35 % | 62 % |
| Palm Oil | Unknown | 65 % | Sugar Mill | 7 % | 57 % |

Marketing Protein Ingredient

- Nutrinsic is 100 % responsible for marketing the high protein, non-GMO feed ingredient produced, named ProFloc™
- Nutrinsic has invested significant time and money to develop the market, including a number of animal feeding trials and feed industry outreach
- Nutrinsic is 100 % responsible, at its own cost, to dispose of any off-grade meal
 - This unanticipated disposal would be according to federal, state and local requirements
- Nutrinsic benefits from revenues from sale of ProFloc™

Conclusions

- Nutrinsic's patented technology removes nutrients from wastewater, eliminates sludge and improves effluent
- Win – Win situation
 - For the Food/Beverage processor
 - Sludge disposal eliminated – along with expenses
 - Lower WWT operating expenses
 - Effluent quality guaranteed
 - Improved environmental image
 - No capital requirement
 - Accommodates future growth and expansion
 - For Nutrinsic
 - Revenues from marketing ProFloc™

For More Information

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