

PROTEIN PRODUCTION NOW COMES IN MULTIPLE SIZES

MAXIMIZED STILLAGE CO-PRODUCTS™ (MSC) TECHNOLOGY

MSC produces Still Pro 50™, a purity protein product that trades in the alternative high-value protein market and is a unique blend of spent brewer's yeast and corn gluten meal. The protein has shown great success in the pet food, aqua, dairy, poultry, and swine markets. It's an excellent way to significantly diversify your plant's revenue stream.

- Proven 50% protein co-product
- Adds \$.10 to \$.20/gallon additional EBITDA
- Less than 3-year payback
- 10% plant throughput gain
- 30% oil yield increase
- 20% evaporator gain
- 40% reduction in DDGS dryer loading

U.S. Patent No. 8,778,433 • 8,813,973 • 10,160,962 • 10,190,076 • 10,233,404 • 10,266,790 • 10,519,398 • 10,800,994 • 10,875,889 • 10,926,267



**“MSC significantly
helps the bottom line
when we need it most.”**

**-BARB BONTRAGER,
GM-UWGP**



MSC LTE™ TECHNOLOGY

MSC LTE modular protein production uses the same proven technology as the original MSC from FQT. MSC LTE recovers a portion of the available protein that MSC does, for the same plant benefits, but at a lower cost.

- Uses the same proven technology as the original MSC
- Proven 50% protein product
- 12 months from beginning buildout to protein production
- Produces up to 2.0 pounds/bu
- Significant gains in throughput and oil yields

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THIN STILLAGE CLARIFICATION™ (TSC)

ENERGY SAVINGS NOW, PROTEIN PRODUCTION LATER

If you want to get your ethanol plant moving toward MSC or MSC LTE technology, consider adding Thin Stillage Clarification first. TSC is the first step in protein production, reducing solids from thin stillage and allowing plants to realize efficiency gains. It removes suspended solids from thin stillage and backset, which significantly improves evaporator performance, resulting in efficiency gains and increased oil yield. TSC also removes unfermentable solids from backset, providing more room for additional starch in fermentation. This is a fundamental step toward co-product diversification, at an entry-level capital investment.

- Reduces load on dryers, resulting in capacity gain
- Lessens residual solids in backset
- Results in additional 0.2 lb/bu oil yield
- Increases plant throughput capacity more than 5%

Patent pending