

# NOVA SERIES:

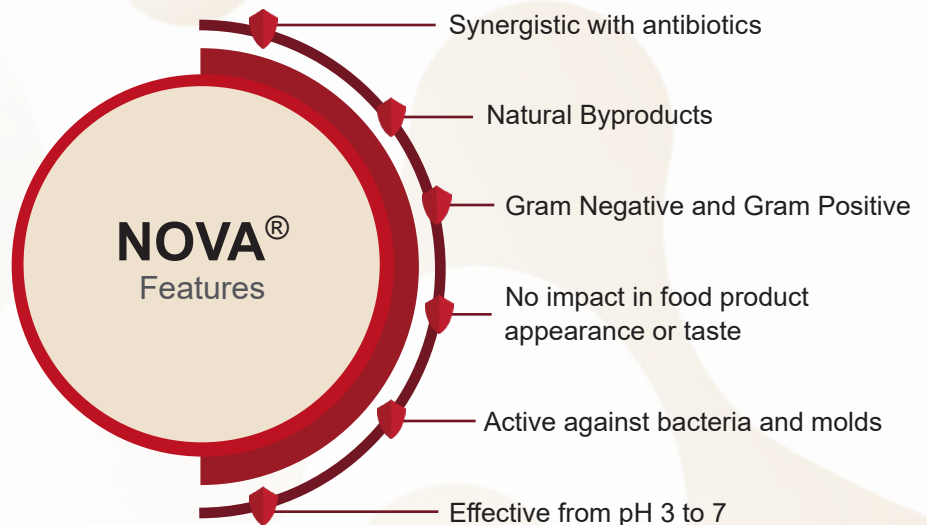
Gram Positive/Gram Negative - Natural Based Antimicrobial Compound

The NOVA chemistry is proven technology with over 5 years of commercial application. It's an innovative, proprietary, gram negative–gram positive antimicrobial. The NOVA chemistry is specifically desirable for beverage alcohol, aquaculture, high protein distillers grains, food processing and can replace traditional antibiotics where antibiotic residue is not permitted or desired. NOVA EZP/EZL are GRAS and KOSHER approved. See the NOVA Product/Technical Data sheet for additional information.



## NOVA EZP

NOVA EZP is a new, full spectrum antibiotic free, 98% concentrated powder formulation that is applied in the same manner as traditional antibiotics. EZP can be applied to front end processes propagation/fermentation.

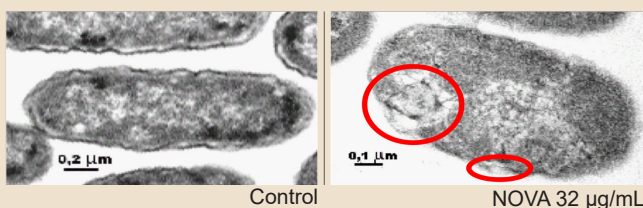


## NOVA® Dual Mode of Action

NOVA® is an antimicrobial agent that acts on the cell membranes and cell cytoplasm, inhibiting bacterial resistance.

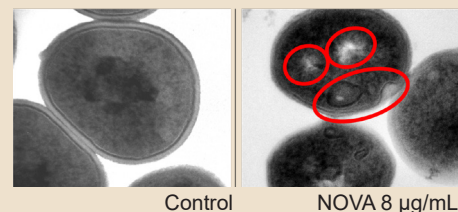
### CELL WALL

*Salmonella typhimurium* ATCC 14028



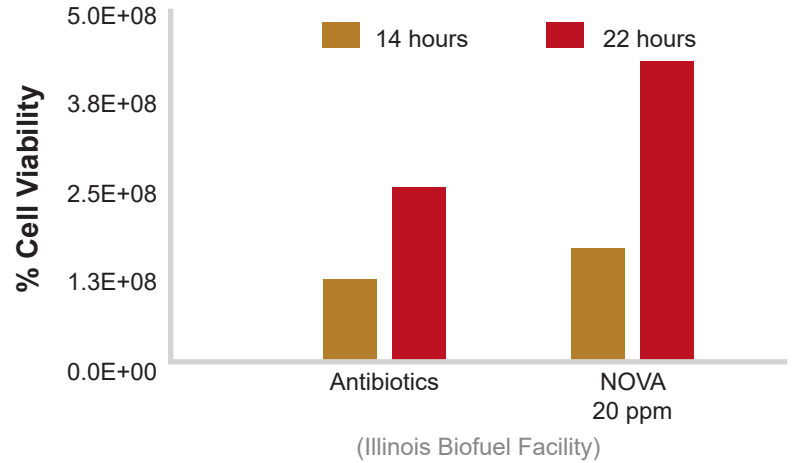
### CYTOPLASM INHIBITOR

*Staphylococcus aureus* ATCC 6538



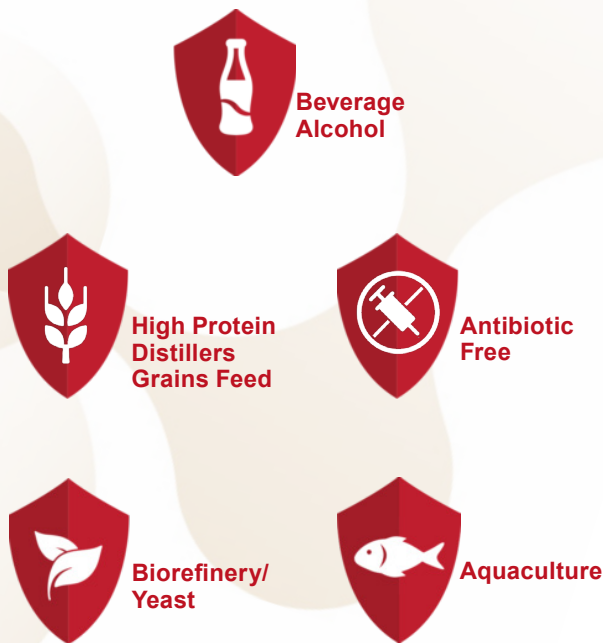
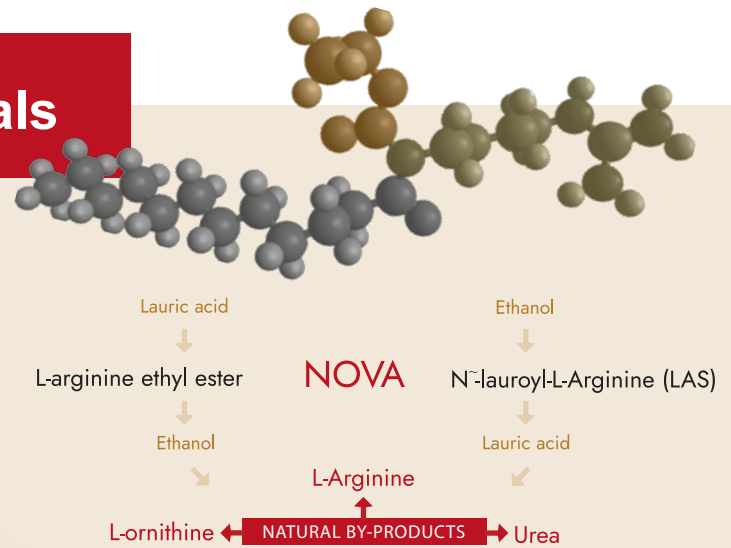
## Yeast Vitality- Biofuels

NOVA, while a strong antimicrobial, is very supportive to yeast metabolism/vitality as shown by the graph. NOVA provides yeast a medium to thrive reducing stress that directly corresponds to reduced Glycerol levels. Providing yeast the best possible medium to propagate directly corresponds to increase productivity - all without the use of antibiotics.



## Made of Natural Raw Materials

- **L-arginine:** non-essential amino acid, present in many food sources: cheese, poultry, seafood, nuts, seeds, and cereals.
- **Lauric acid:** present in coconut and palm kernel oil.
- **Ethanol:** alcohol produced by fermentation of sugars.



## Fate Analyses Metabolized Upon Ingestion

NOVA is novel chemistry manufactured with natural ingredients and byproducts that are natural compounds providing further nutritional benefits.



**New dry formulation.**  
NOVA now ships as an easy to mix powder