

NOVA Chemistry
Patent Pending

NOVA Full Spectrum - Antibiotic Free

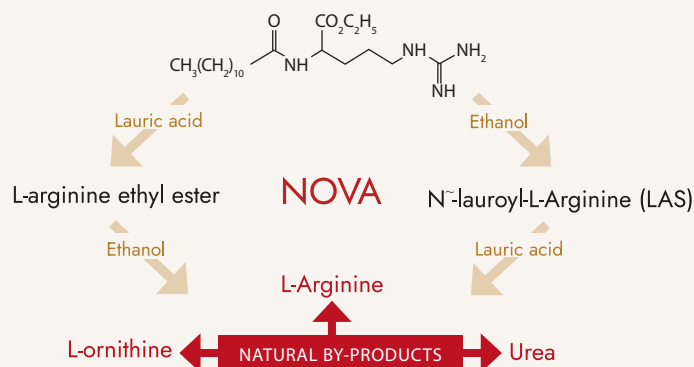
The NOVA chemistry is proven technology with over 5 years of commercial application. It's an innovative, proprietary, gram negative-gram positive antimicrobial. The NOVA chemistry is specifically desirable for beverage alcohol, aquaculture, high protein distillers grains, food processing and can replace 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 EZL

NOVA EZL is a liquid formulation with all the above benefits intended for facilities who prefer a product that can be dosed via automation.



Front-End and Other Antimicrobials

Hops Acid Formulations

ENOCK ALPHA

30% Alpha-Acid based, Hops Acid formulation designed for biofuel propagation/fermentation processes.

ENOCK BETA

Beta-based, Hops Acid formulations (10% and 45% concentrations) intended for sugar and beverage.

Chlorine Dioxide

ENOCK SSC (15% Sodium Chlorite)

Antimicrobial solution designed for application at start of fermentation, utilizing the fermentation process to create low levels of chlorine dioxide for antimicrobial control.

Archangel GenesisGene™

DNA Microbiological Monitoring



Exclusive to Archangel, our new DNA technology not only details all bacteria in your process, but does so to the precise percentage. GenesisGene™ is the first technology that facilities can utilize on site to diagnose problematic system operations and devise treatment options in a matter of hours, vastly reducing financial losses due to infections.



Antibiotic Based [Fuel Ethanol Fermentation]

ENOCK V (*Virginiamycin*)

Virginiamycin formulation designed to control contaminating bacteria by interfering with protein synthesis at the ribosomal level.

ENOCK V PLUS (*High Concentration Virginiamycin*)

Maximum strength Virginiamycin formulation designed to control contaminating bacteria by interfering with protein synthesis at the ribosomal level.

ENOCK P (*Penicillin G*)

Single component antimicrobial designed to address problematic bacteria by inhibiting cell wall synthesis.

ENOCK E (*Erythromycin*)

Single component antimicrobial containing Erythromycin. Erythromycin is effective against a broad spectrum of gram-positive bacteria that is not well controlled by Virginiamycin or Penicillin.

ENOCK BLENDS (*Customizable Formulations*)

- Enock 70-30 (70% Virginiamycin/30% Penicillin)
- Enock 50-50 (50% Virginiamycin /50% Penicillin)
- Enock 30-70 (30% Virginiamycin/70% Penicillin)

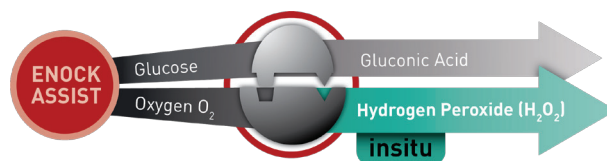
Combination of antibiotics to inhibit a broad range of both gram-negative and gram-positive fermentation contaminants.

ENOCK ZX

Powerful macrolide fermentation antibiotic effective against both gram-positive and gram-negative bacteria via bacterial protein synthesis inhibition.

Note: Antibiotic Packaging: 0.5 lb or 1 lb. water soluble packaging in 25kg fiber drums.

ENOCK ASSIST



New, patent-pending GRAS approved formulation that simultaneously enhances the efficacy of traditional antibiotics and reduces the dosage required. Enock Assist augments the antimicrobial mechanisms and resulting in less antibiotic residue in the distillers grain.

Archangel – A Technology Based Company

Industry Exclusive to Archangel

- GenesisGene™ – DNA microbiological monitoring
- Product Safety Packaging – Industry First to protect personnel
- Enock Assist – Technology to reduce and enhance antibiotic usage
- Most Comprehensive Antimicrobial Product Line

Archangel combines technology with products to dramatically change the nature of how facilities manage their process.

Technical Support and Laboratory Capability

Archangel provides onsite technical support personnel in addition to laboratory support to include:

- Exclusive New GenesisGene™ DNA Microbiology Analyses (Onsite & Laboratory)
- HPLC



Exclusive Dual Barrier Safety Packaging



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