



KEY BENEFITS:

- NON-SELECTIVE: works with both positive and negative elemental ions.
- VERSATILE DELIVERY: hand application, spray, or via simple pumping system.
- LOW ENERGY: requires less effort from the microorganisms to uptake nutrients, lowering biological oxygen demand (BOD).

*Huma® invites you to experience the benefits of our broad-spectrum line of biostimulant and nutrient products, powered by MICRO CARBON TECHNOLOGY®*



Municipal  
Industrial  
Food & Beverage  
Pulp & Paper

Bio Energizer®  
Bio Genesis®  
Micatrol®

*Municipal  
Wastewater Solutions*

Scan for  
more info



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## Bio Energizer®

### WHAT IT DOES

Bio Energizer® is our most robust formulation of complexing agents, organic acids, natural biostimulants, buffers, and nutrients that balance the natural microbial ecosystem to increase bio-oxidation capacity. It reduces sludge build-up and handling costs by lowering BOD/COD and reducing FOG, as well as solving odor concerns. Bio Energizer® reduces odor and grease problems in sewer lines and lift stations.

### Benefits

- Reduces noxious odors
- Digests fats and greases
- Reduces sludge buildup in lagoons
- Supports dissolved oxygen levels
- Lowers sludge dewatering and hauling costs
- Improves flocculation and settleability
- Minimizes upsets
- An economical alternative to mechanical sludge removal, eliminating handling costs and out-of-service time

Learn more at [Huma.us](http://Huma.us)



## Bio Genesis®

### WHAT IT DOES

Bio Genesis® is a formulation of nutrients, organic acids, and natural biostimulants that balance the natural microbial ecosystem to increase bio-oxidation capacity in activated sludge systems. Bio Genesis® reduces operating costs by lowering BOD/COD and improving settleability while controlling filamentous bacteria and reducing FOG.

### Benefits

- Improves flocculation and settleability
- Improves SVI
- Reduces coagulant and flocculant chemical use and costs
- Minimizes upsets
- Reduces chlorine disinfection demands
- Reduces filamentous bulking, foaming, and scum
- Reduces wasting, sludge volume, and out-of-service time
- Improves effluent water quality



## Micatrol®

### WHAT IT DOES

Micatrol® is a formulation of complexing agents, organic acids, buffers, and nutrients that enhance biological degradation. Micatrol® catalyzes the breakdown of chemical and petroleum compounds and promotes microbial digestion while buffering from harmful chemical compounds—resulting in biodegradation of toxicities into harmless byproducts of carbon dioxide, water, and humus. Micro Carbon Technology® is included to ensure better deliverability of nutrients to plants and microorganisms.

### Benefits

- Complexes heavy metals and salts to reduce toxicity
- Reduces chemical residues for detoxification
- Breaks down chemical or petroleum contamination
- water incorporated

