

PRAESTOL™ BA MICROBIAL AIDS

**Advanced bioaugmentation for
wastewater treatment**



- Improved wastewater reliability
- Reduced TOC, COD, BOD, and TSS
- Reduced effluent surcharge costs
- Improved compliance

Praestol™ BA Microbial Aids

Pulp and paper mills must respond to a number of competing priorities, related to both corporate environmental initiatives and external environmental regulations requiring effluent compliance. Because of these pressures, mills struggle to find wastewater treatment programs that enable them to achieve effluent compliance without significantly raising costs.

There are a number of factors that can trigger wastewater upsets and make it difficult to achieve compliance.

Operational variations in a mill can cause shock loading, temperature stresses and excessive growth of non-settling (non-performing) biomass.

Bioaugmentation can speed up recovery of a biomass upset by adding specialized microbial strains and ancillary technologies to the biological system of a wastewater treatment plant in order to improve its operating performance. The addition of



these specialized bacteria enables an improved response of the microbial population to handle process fluctuations and shock loadings.

Technology Overview

Praestol™ BA Microbial Aids are blends of adapted microorganisms and biostimulants formulated for use in pulp and paper mill wastewater treatment applications. Praestol BA Microbial Aids produce multiple types of enzymes, such as protease, amylase, esterase, xylanase, urease, cellulase, and lipase, which, when applied to an existing biomass, will optimize the BOD removal — associated with cellulose, starch, sugars, various hydrocarbons and lignin — and enhance effluent TSS.

Features and Benefits

FEATURE	BENEFIT
Improved wastewater reliability	<ul style="list-style-type: none">• Increase response to upset conditions• Reduce total cost of operation• Reduce sludge disposal costs
Reduced TOC, COD, BOD and TSS	<ul style="list-style-type: none">• Improve effluent plant operations• Lower energy and water costs
Reduced effluent surcharges	<ul style="list-style-type: none">• Improve profitability• Reduce municipal surcharges
Improved compliance	<ul style="list-style-type: none">• Avoid wastewater discharge fines

The Solenis Difference

Working side by side with your personnel, your Solenis sales and service professionals become intimate with your operation and apply this knowledge to design a total system approach tailored to your needs. Supporting your local representative is a dedicated team of global applications specialists with expertise in water treatment chemistry, automation, equipment and water re-use. These applications experts troubleshoot problems and specify best practices for influent and effluent operations.

More Information

To learn more, contact your technical sales representative or visit us online.

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