



A Subsidiary of Cortec® Corporation

CORTEC
Biotechnology™



Innovation

Environmentally Friendly



CORTEC®

BIOTECHNOLOGY CAMPUS

SARASOTA, FLORIDA



Cortec® Corporation and its subsidiaries are the world's largest producer of Vapor phase Corrosion Inhibitor (VpCI®) and Migratory Corrosion Inhibitor (MCI®) Technology. Cortec's new Biotechnology Campus at 2420 Trailmate Drive in Sarasota, Florida (USA), is located in the modern industrial park of Parkland Centre near the Sarasota-Bradenton International Airport. It is a state-of-the-art research facility with 36,000 square feet of office, manufacturing, warehouse, and laboratory areas under one roof.

The Cortec® Biotechnology Campus is equipped with cutting edge equipment for the manufacturing of Cortec's Nano VpCI® coatings and Bionetix's bioremediation and cleaning products. Part of the space is designated for warehousing and shipping of Cortec® products that are deemed "freezable" and cannot be shipped out of our Minnesota or Wisconsin plants during the winter months. The warehouse location also makes a better ship point for U.S. markets in southeastern states, and customers in South American and the Caribbean.


Bionetix
INTERNATIONAL
A Subsidiary of Cortec® Corporation

Bionetix® International produces biological based waste treatment products, cleaners, feeds, and agricultural treatment that are used in thousands of field applications globally. Since 1996, Bionetix® International has supplied natural biological products to the petroleum, food and agriculture, and hazardous waste industries to degrade target substances in waste systems. Bionetix® relies on bacterial supplementation through the application of biochemical cleansing products.

The Biotechnology Campus now enables Cortec® to produce its own building blocks for the creation of Bionetix® natural cleaners and waste treatment products. Important asset investments have allowed the onsite fermentation of microorganisms that power Bionetix's bioaugmentation products, upholding Cortec's philosophy of vertical integration to ensure the quality and purity of Bionetix® products.

SOLUTIONS DIRECTLY FROM NATURE

CBC microbiologists gather water and soil samples directly from the field in order to discover promising microorganisms that can be turned into bioaugmentation or cleaning products.

R&D PURIFICATION

Organisms are nurtured and isolated to obtain a pure culture.

The highest performing microbes are selected and further studied to determine optimal environment and degradation abilities.

Microbes with good performance are field tested and screened.

Optimized microbes are sent on to pilot scale fermentation.

FERMENTATION PROCESS

CIP (clean-in-place) and SIP (steam-in-place) measures are taken to ensure the fermenter and growth medium are clean and sterilized.

Organisms are incubated according to optimum conditions and fermented 48-72 hours.

The resulting fermentate is pasteurized, harvested, and centrifuged to concentrate the spores.

Freeze drying is our preservation method to ensure highest quality fine powders.

COMMERCIALIZATION

Products are formulated based on application. For example, a product destined for waste water treatment would undergo BOD (Biochemical Oxygen Demand) testing and be evaluated for best performance in waste water conditions.

Stability testing is conducted on the new formula containing the strain.

Incubated samples are screened for appearance, color, consistency, odor, and spores viability over time.

Stable products go out on the market to resolve a host of waste treatment issues through natural biological processes!



Retail



Institutional



Industrial



Municipal

A HAVEN FOR ENVIRONMENTALLY FRIENDLY COATINGS

In addition to enabling production of natural biotechnology products, CBC's location in sub-tropical Sarasota, Florida, will allow Cortec® to ship its high performance water-based coatings year-round!

Possible Scenario:

1. Freezing temperatures halt shipment of water-based coatings from Cortec's Minnesota headquarters.
2. Orders are redirected to products stored at CBC.
3. Customers in warmer climates gain access to environmentally friendly coatings all year!

BIOTECHNOLOGY LABORATORIES

The CBC lab is primarily responsible for optimizing each strain where microbiologists study the best growth conditions via bench top fermentation prior to scale up. New cultures are also collected from environmental samples, destined for Bionetix® biotechnology products. Additionally the stability of the organisms, individually and in a blend in various Bionetix's products are also studied. CBC typically grows one strain of bacterium per week. Downstream processing includes centrifugation and freeze drying followed by QC work in the lab.





The
Biotechnology
Campus allows
Cortec® to:

- Fortify plant inventory
- Ship freezable products year round
- Ensure quality of Bionetix® products by vertical integration

LIMITED WARRANTY

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