

PRESS RELEASE

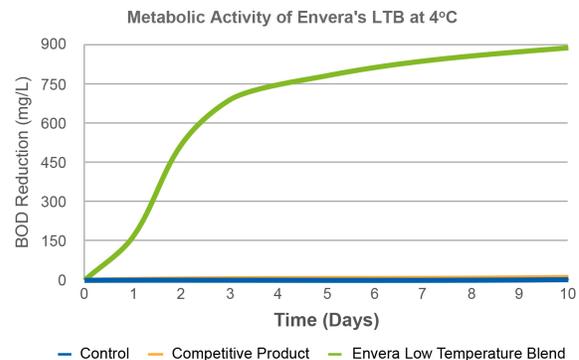
Envera Granted Patent for Low Temperature Growing Bacteria

West Chester, PA, November 30, 2016: Envera announced today the award of a patent covering a proprietary group of low temperature growing bacteria. The psychrophilic microorganisms are naturally occurring bacteria, isolated from a stream in Pennsylvania, with the ability to grow at 4°C.

Mike Matheny, President and Owner of Envera stated, “The feedback on the performance of these patented strains has been phenomenal. A client of ours obtained excellent results treating a wastewater treatment system that was at 1.7°C, where competitors’ products had failed. This is further validation that Envera’s approach of isolating unique organisms targeted at addressing specific issues results in real world solutions for our customers.” After commenting on the newly patented strains, Mike further elaborated, “We are continuing to build our proprietary microbial collection, and have raised the bar on what it takes to be a top performer in this field.”

The bacteria covered in the awarded patent are listed as *Bacillus sp.* This decision was made because the bacteria do not match well to any existing species. Genetic analysis using 16S ribosomal RNA indicated the closest matches were *Bacillus simplex* or *Bacillus butanolivorans*. Further testing in the laboratory revealed some major biochemical differences between the newly isolated Envera strains, and the *Bacillus simplex* and *Bacillus butanolivorans* type strains.

The graph to the right illustrates the metabolic activity of Envera’s Low Temperature Blend (LTB) at 4°C in a respirometer. The data are reported as change in biochemical oxygen demand (BOD). As is shown, Envera’s patented strains quickly germinate, and grow at 4°C, reducing the amount of waste in the system, while the competitive product does not show any metabolic activity.



Envera is a bioscience-based company focused on the production of environmentally friendly products. With decades of experience in the isolation, large scale production, stabilization, and product formulation of microorganisms, Envera is a leader in the development and commercialization of microbial and enzyme based products for the consumer, institutional, agricultural, wastewater, and bioremediation markets. Envera’s technology platform includes expertise in the areas of bacteriology, mycology, enzymology, and chemistry.

Contact: Michael Matheny at mmatheny@envera.com or phone 484-593-4002 for more information.