

Cronophage

Name of eco-innovation offer	Cronophage
Company / organisation	Comenius University Science Park
Country	Slovakia
Website	https://www.cusp.uniba.sk/
Description of required eco-innovation / solution / technology / resource / knowledge / product / service	<p>Non-antibiotic therapies to treat bacterial infections are now under serious consideration and one possible option is the therapeutic use of specific phage particles that target bacterial pathogens. Bacteriophages are viruses that only infect and lyse bacterial cells. In recent years, well-controlled animal models have demonstrated that phages can rescue animals from a variety of fatal infections, while non-controlled clinical reports published in Eastern Europe have shown that phages can be effective in treating drug-resistant infections in humans.</p> <p>In recent years it has become widely recognized that bacteriophages have several potential applications also in the food industry. They have been proposed as alternatives to antibiotics in animal health, as biopreservatives in food and as tools for detecting pathogenic bacteria throughout the food chain.</p> <p>Consequently, they display two unique features relevant in and suitable for food safety. Namely, their safe use as they are harmless to mammalian cells and their high host specificity that allows proper starter performance in fermented products and keeps the natural microbiota undisturbed. Our aim is to create new specific phage collection, which can be used for personal treatment as well as in food industry.</p>

Background	Our product is designed to decontaminate food from well-known food pathogens Cronobacter spp. as well as Enterobacter and E.coli
Preferred form(s) of cooperation, collaboration	development of prototype
Language(s) of communication	Slovak , English
Contact at the company / organisation	info@cusp.uniba.sk