

Obtaining High-yield and Bioactive *B. subtilis* Bioproducts with Creative Biogene's Cultivation Support

Creative Biogene announced the release of *Bacillus subtilis* cultivation service using flexible fermentation and cultivation strategies to help customers in obtaining high-yield and bioactive *B. subtilis* bioproducts.

New York City, New York Jun 15, 2022 ([Issuewire.com](https://www.issuewire.com)) - Creative Biogene, a biopharmaceutical company dedicated to delivering a first-class microbiological research program and rich microbial sample collection, today announced the release of *Bacillus subtilis* cultivation service using flexible fermentation and cultivation strategies to help customers obtain high-yield and bioactive *B. subtilis* bioproducts. Relying on its mature fermentation platform, which consists of sizeable fermentation tanks and large-scale purification systems, the company can support high-purity and kilogram-level products.

Bacillus subtilis is an aerobic Gram-positive soil bacterium. Due to its clear genetic background and simple genetic operating systems, [B. subtilis](#) was revealed to contain a wide range of mature genetic tools, promoters, and plasmid expression systems that can be used in metabolic engineering, protein expression, and synthetic biology. It can anabolize biochemicals, enzymes, and other industrial biological products, as well as be used as a platform for vaccine preparation or as an agricultural feed additive. In addition, it's an ideal model for studying biofilm formation and other physiological characteristics of adherent cells.

Since *B. subtilis* manifests various advantages depicted above, scientists at Creative Biogene have focused on this incredible organism for decades. They apply the adaptive laboratory evolution (ALE) method to enhance the fitness of microorganisms through selected environmental conditions and sometimes combine rational gene knockout with ALE to improve the *B. subtilis* cell growth. For fermentation, Creative Biogene employs the systematically optimized two-stage solid-state strategy, in which the first stage focuses on improving cell growth, followed by the second stage aiming to enhance both cell growth and sporulation.

"We have established a mature technical platform to culture various microorganisms that can be isolated from readily available sources. After decades of accumulation, our [Bacillus subtilis cultivation](#) service has been built up to fulfill the exponentially growing demand for biopharmaceutical products, such as recombinant functional proteins, research or therapeutic antibodies, and universal or specific vaccines. Winging up with our professional help, researchers can achieve numerous superior bioproducts with a magically high yield and bioactivity." Said the marketing manager at Creative Biogene.

Creative Biogene is not only versed in aerobic cultivation but also an expert in fermentation and cultivation of facultative anaerobes, sliding bacteria, autotrophic bacteria, and heterotrophs. As a comprehensive biotechnology company, Creative Biogene also offers other technical supports such as microbial identification, genome editing, and drug discovery for global clients and partners.

About Creative Biogene

Creative Biogene is a high-tech service company that specializes in microbiological research-related issues. Creative Biogene supplies customers with an overall microbiological research program, including sample collection, preservation methods, preliminary experiments and effect evaluation, experiments and data analysis, etc. Creative Biogene is dedicated to assisting researchers in exploring

the hidden mysteries between microbes and health, production, and the environment to make better use of microbial resources.

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