



Clostridium acetobutylicum; 8008

Cat. No.: LBST-066FG

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	<i>Clostridium acetobutylicum</i> is a Gram-positive bacillus. It requires anaerobic conditions in order to grow in its vegetative state. In its vegetative states, it is motile via flagella across its entire surface.
Target	<i>Clostridium</i>
Genus	<i>Clostridium</i>
Application	Study and research
Type Strain	No
Culture Medium	Blood agar
Culture Conditions	37°C; Anaerobic
Characteristics	Gram-negative thallus is rod-shaped with motility. The colony is round, rough surface, raised, edge is basically neat, white. Liquid culture has acetone butanol, butyric acid taste, there are settled matter. Gelatin can be liquefied, no pigment. It ferments glucose, sucrose and starch. Catalase positive, milk reaction does not produce acid, coagulation, peptone, incomplete reduction. The highest growth temperature is 39°C, the lowest growth temperature is 32°C.
Risk Group	1
Product Format	Freeze-dried

Packaging	Ampoule tube
Storage	-80°C
Shelf Life	6 years

TARGET INTRODUCTION

Introduction *Clostridium* is a genus of rod-shaped, usually Gram-positive bacteria, members of which are found in soil, water, and the intestinal tracts of humans and other animals. The majority of species are obligate anaerobes. As the predominant bacteria in gut, *Clostridium* species exert lots of benefits to body health via interacting with intestine directly or indirectly. *Clostridium* species are potent candidates to alleviate dysfunctions and disorders in intestine, they have been reported to attenuate inflammation and allergic diseases effectively owing to their distinctive biological activities. Their cellular components and metabolites, like butyrate, secondary bile acids and indolepropionic acid, play a probiotic role primarily through energizing intestinal epithelial cells, strengthening intestinal barrier and interacting with immune system. In view of their salutary performances, *Clostridium* species have a huge potential as probiotics.

Alternative Names	<i>Clostridium acetobutylicum</i> ; 8008
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