

Propionibacterium freudenreichii powder

Product Information

Description	This strain was isolated from the intestinal tract of <i>Sebastes schlegelii</i>. It was identified as <i>Propionibacterium freudenreichii</i> subsp. <i>shermanii</i> via 16S rDNA sequencing. It is a Gram-positive bacterium, appearing as short rods or club-shaped bacilli under a microscope. The cells exist singly, in groups or short chains. When cultured on MRS agar plates, it forms round colonies with a moist surface, white color, regular margins and smooth convex morphology. In liquid MRS medium, the culture presents uniform turbidity, and white sediment will form after long-term static incubation. The optimal growth temperature is 30 °C, and it is anaerobic. Functional tests verify that this strain can inhibit the growth of <i>Klebsiella pneumoniae</i>, produce alcohol, agglutinate <i>Klebsiella pneumoniae</i> and suppress the expression of its virulence genes. It also features alcohol tolerance, accelerates alcohol metabolism and alleviates alcohol-induced damage.
Appearance	White to light yellow-free-flowing powder
Form	powder
Activity	100 billion CFU/g or more
Stability	24 Months
Storage	Recommend storage at frozen temperature (-18 °C) or lower in original, sealed package away from light.
Function	Vision health
Synonyms	Sherman's propionibacterium, <i>Propionibacterium</i>