

## Akkermansia muciniphila Freeze Drying Powder

Cat. No. PRBT-101-Live

Lot. No. (See product label)

### Introduction

#### Description

Akkermansia muciniphila is an oval, gram-negative, strictly anaerobic bacterium that is a commensal in the human gut. This bacterium is immobile and does not form spores. Akkermansia muciniphila was first isolated from the human gut in 2004 and has been found in both the small and large intestines, with particularly high levels in the cecum, where most of the mucin is produced. A. muciniphila comprises 3% to 5% of the gut microbiota of humans and other mammals. In addition, A. muciniphila has been detected in breast milk and mammary tissue of lactating women, where it utilizes oligosaccharides in breast milk as a source of energy, carbon, and nitrogen. This bacterium is vertically transmitted from breast milk to infants and plays a role in the development of the gut microbiota in early infancy (around 1 month), with a significant increase in abundance in adulthood. Akkermansia muciniphila Freeze Drying Powder is a viable form of Akkermansia muciniphila powder. This bacterium is strictly anaerobic, which aligns with its survival environment in the human gut. However, this also means that the presence of oxygen during transportation and storage can significantly reduce the vitality of the bacterial powder. Please handle it properly during transportation and use to avoid loss of activity.

### Product Information

<b>Species</b>	Akkermansia muciniphila
<b>Source</b>	Human
<b>Form</b>	Powder
<b>Activity</b>	100B AFU/g