Pediocin from Pediococcus acidilactici

Catalog Number P0098
Storage Temperature –20 °C

CAS RN 133108-87-9

Product Description
Pediocins are class IIa bacteriocins, which are produced by Pediococcus species. They are cationic peptides containing between 35–50 amino acids. Most pediocins are thermotolerant proteins and function under a wide range of pH values. Pediocins show particularly strong activity against food-spoilage and pathogenic bacteria, such as Listeria monocytogenes, Clostridium perfringens, Enterococcus faecalis, and Staphylococcus aureus. This antimicrobial action of pediocins is based on interaction with the cytoplasmic membrane, which results in pore formations and cell death. Since pediocins are degraded by the proteolytic enzymes of the gastrointestinal tract and seem to be non-toxic and non-antigenic to animals, they have the potential as food biopreservatives.

The product is supplied as a solution of 100 mM sodium acetate, pH 5.

Purity: ≥95% (HPLC)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
Store the product at –20 °C. The product when stored properly is stable for two years.

References