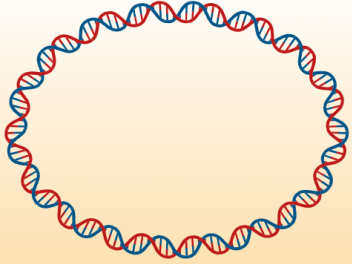


Genome Announcement: *Lactiplantibacillus plantarum*

Accession#SAMEA120513494 (NCBI)
#INS0022927 (IBDC)

1. Genome Sequencing



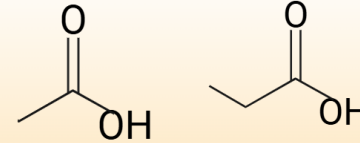
BRIC-THSTI
presenting the whole
genome sequence
of
***Lactiplantibacillus
plantarum*** from the
fermented bamboo
shoot sample.

2. Analysis



***Lactiplantibacillus
plantarum***
highlights its
antimicrobial
potential through
diverse biosynthetic
molecules and a
CRISPR-based
defense system,
supporting its
probiotic role.

3. Insights



Short Chain Fatty Acids

The genomic insights
reveal a complete
CRISPR-Cas system
multiple biosynthetic
pathways for terpene
(**phytoene_synt_**
terpene),
polyketides (**T3PKS**),
and bacteriocins
(**RiPP-like**).

4. Translation



L. plantarum is a
highly effective
candidate for use as
a biopreservative, a
functional food
ingredient, and a
therapeutic probiotic.

***Lactiplantibacillus plantarum*: From Bamboo to Biotech, The Plant-
Powered Defender Beating Bad Bugs.**

Genomics of *Lactiplantibacillus plantarum*

