



Government of India
Ministry of Science & Technology
Department of Biotechnology



ONE DAY ONE GENOME

Lactiplantibacillus plantarum

ISOLATED
FROM FRUIT
BEVERAGE

THE ISOLATE SHOWED
PROBIOTIC POTENTIAL



*Lactiplantibacillus plantarum*subsp. *plantarum*

Genome Accession Number: SRR32591693

Quality of Genome Assembly and Annotation:

Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	28
GC Content	44.38
Contig L50	4
Genome length	3,272,747 bp
Contig N50	349,393

Table 2: Annotated Genome Features	
CDS	3,179
tRNA	55
rRNA	3

Subsystem Analysis

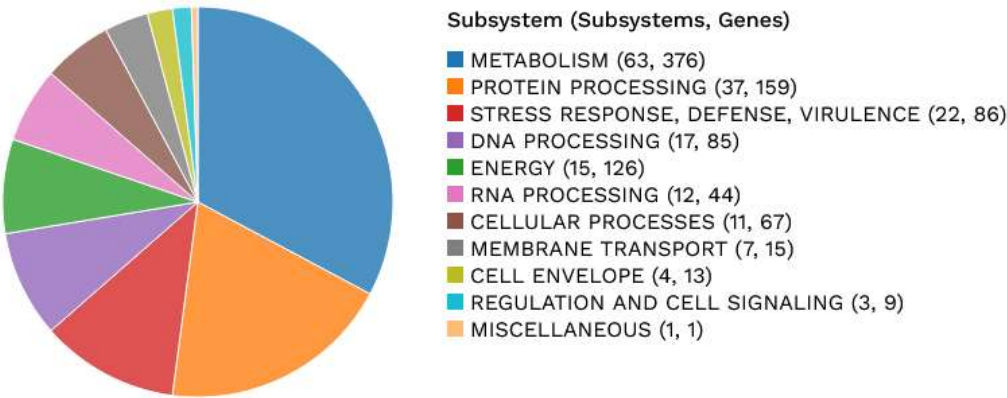


Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	Genes
Antibiotic modifying enzyme	RlmA(II)
Antibiotic target replacement protein	FabK
Antibiotic target in susceptible species	Alr, Ddl, EF-G, EF-Tu, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, Iso-tRNA, kasA, MurA, rho, rpoB, rpoC, S10p, S12p
Protein altering cell wall charge conferring antibiotic resistance	GdpD, MprF, PgsA
Gene conferring resistance via absence	gidB

Genome Assembly

