

One Day One Genome

Lipingzhangella rawalii (MCC 3420) Genome accession number: JAVLVT010000000

Micro pharmaceutical producer from Sambhar Lake

The genome of Lipingzhangella rawalii holds potential for natural bioactive molecule production, supporting India’s biotech and pharmaceutical sectors

Isolated from Rajasthan’s Sambhar Salt Lake, L. rawalii thrives in extreme environments, driving innovations in high-salinity bioactive compound

Biotechnology from the Heart of India’s Salt Lakes!

Quality of Genome Assembly and Annotation: Results from indigenously developed BHARAT analysis pipeline: (Bacterial Hybrid genome Assembly and Rapid Annotation Toolset)

Table 1. Assembly Details

Contigs58

GC Content67.99

Plasmids0

Contig L503

Genome Length4,687,755 bp

Contig N50658,485

Chromosomes0

Table 2. Annotated Genome Features

CDS4,436

Repeat Regions112

tRNA52

rRNA2

Partial CDS0

Miscellaneous RNA0

Job IDannotation_3011388

Organism name	Genome Accession number	Culture type	Isolated from	Pathogenicity	Genome Size	No. of Genes	Pathogenic genes	Importance
Lipingzhangella rawalii (MCC 3420)	JAVLVT010000000	Gram stain positive, long rod-shaped and non-motile	An inland hypersaline lake	Non pathogenic	4,687,755 base pair	4,436	FabG, HtdX, GdpD, PgsA	Commercial application of bioactive molecule production