

*Nitricola tapanii* (MCC 2863) Accession: [GCA\\_008368715](#)

Mining Micro  
Stress Busters  
from Lonar  
Lake

BRIC-NCCS sequenced a novel *Nitricola species*, a salt-loving microbe isolated from India's unique – Lonar Lake

This extremophile could provide valuable insights into microbial survival strategies and potential applications in biotechnology

The genome sequence of this bacterium could help scientists understand the genetic basis of its ability to thrive in harsh environments

**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		Table 2. Annotated Genome Features	
Contigs	19	CDS	2,615
GC Content	50.79	tRNA	52
Plasmids	0	Repeat Regions	34
Contig L50	4	rRNA	5
Genome Length	2,793,747 bp	Partial CDS	0
Contig N50	282,347	Miscellaneous RNA	0
Chromosomes	0	Job ID	annotation_2005510

Organism name	Genome Accession number	Culture type	Isolated from	Pathogenicity	Genome Size	No. of Genes	Pathogenic genes	Importance
<i>Nitricola tapanii</i> (MCC 2863)	<a href="#">GCA_008368715</a>	Gram negative, short-rod shaped and motile	Lonar lake sediment	Unknown	2,793,747 base pair	2,615	MacA, MacB, GdpD, PgsA	Novel adaptation mechanisms to high salt and alkalinity