

Isolated from the haloalkaline waters of Lonar Lake, Maharashtra, India







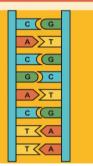
ONE DAY ONE GENOME

Alkalimonas mucilaginosa



A promising candidate for Food Biotechnology







Produces robust enzymes like proteases & lipases ideal for Detergent Industry



Due to enzymes stability under alkaline and saline conditions they are in high demand in Leather Industry

Alkalimonas mucilaginosa

Genome Accession Number: INGCA00000138

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	69	
GC Content	51.40	
Contig L50	5	
Genome length	3,858,702 bp	
Contig N50	289,307	

Table 2: Annotated Genome Features	
CDS	3,679
tRNA	64
Repeat Regions	64
rRNA	4

Subsystem (Subsystems, Genes)
Subsystem (Subsystems, Genes) METABOLISM (77, 552) PROTEIN PROCESSING (42, 232) STRESS RESPONSE, DEFENSE, VIRULENCE (28, 115) ENERGY (25, 178) DNA PROCESSING (18, 92) CELLULAR PROCESSES (18, 153) RNA PROCESSING (14, 74) MEMBRANE TRANSPORT (12, 47) CELL ENVELOPE (4, 20)
MISCELLANEOUS (4, 9) REGULATION AND CELL SIGNALING (3, 14)

Subsystem Analysis

Table 3: Protein Features		
Proteins with functional assignments	2,298	
Proteins with EC number assignments	851	
Proteins with GO assignments	700	
Proteins with Pathway assignments	610	
Proteins with PATRIC cross-genus family (PGfam) assignments	2,508	

Genome Assembly

