



ONE DAY ONE GENOME

*Staphylococcus
epidermidis*

**SKIN
BARRIER**



01

**PREVENTS
INFECTIONS**



02

03



Probiotic

**DEVELOPS
PROBIOTICS**

04



**MAINTAINS SKIN
HOMEOSTASIS**

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)

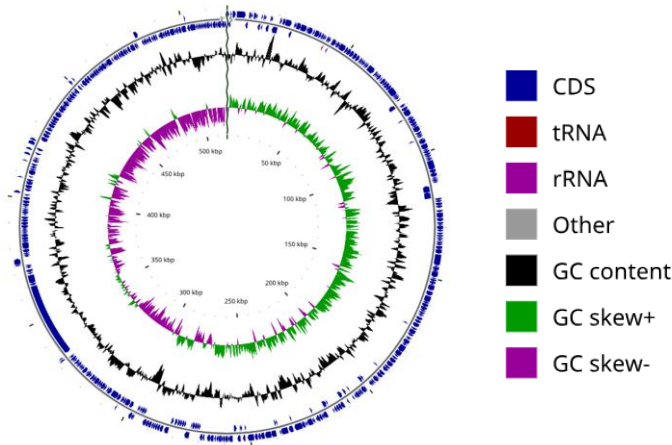
Table 1: Assembly Details

Contigs	7837
GC Content	36.02
Contig N50	11869
Genome length	2,635,356 bp

Table 2: Annotated Genome Features

CDS	3902
tRNA	128
Repeat Regions	2
rRNA	10

Genome Assembly



AMR Genes

dfrG_1erm(B)_18aph(3')-III_1aac(6')-aph(2'')_1msr(A)_1mph(C)_2blaZ_138mupA_2

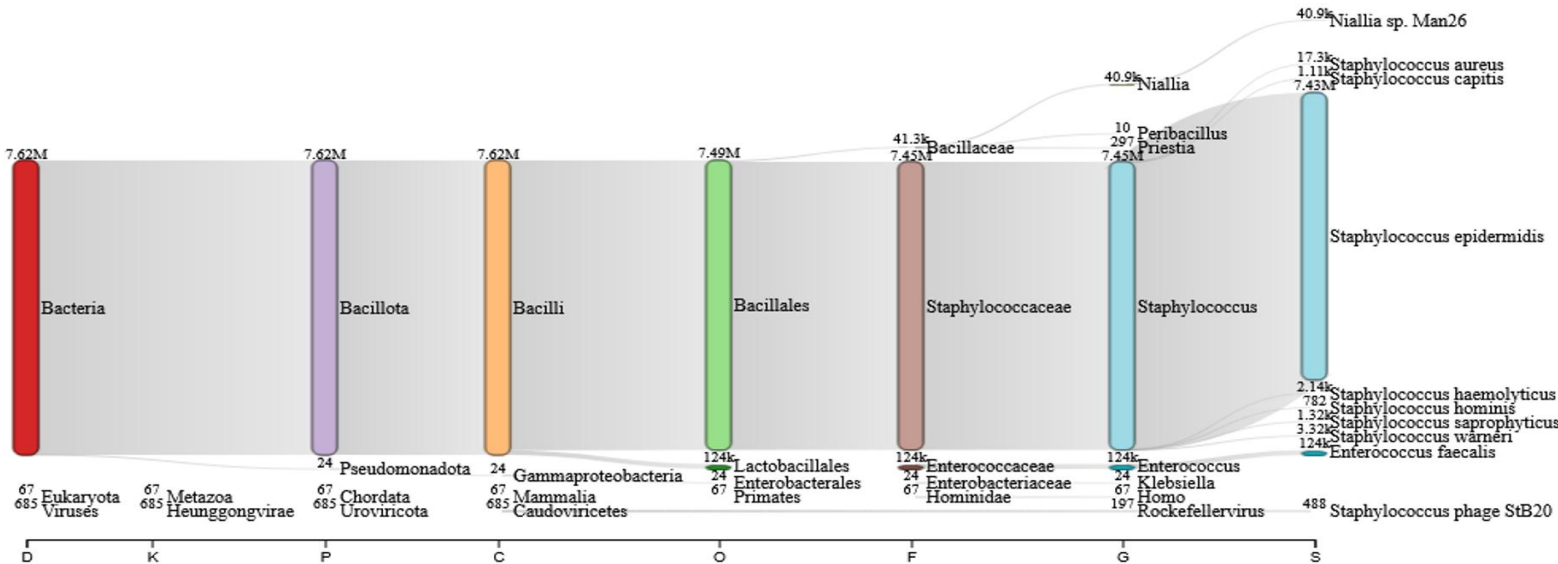
Virulence Genes

cylR2cylR1cylLcylScylMcyLBycylA

EF0485

Plasmid Replicons

rep9b_2_prgW(EF62pC)rep19c_5_rep(SAP108A)rep13_9_rep(pSepCH)rep16_6_SAP071A015(SAP071A)repUS76_1_rep(pSE12228p05)repUS11_rep(pTEF3)



Identified secondary metabolite regions using strictness 'relaxed'

Region	Type	From	To
Region 4.1	NI-siderophore	1,060	34,052
Region 5.1	cyclic-lactone-autoinducer	18,462	39,170
Region 6.1	NRPS	18,866	66,029
Region 6.2	opine-like-metallophore	73,838	95,938
Region 40.1	T3PKS	1	34,551
Region 102.1	lanthipeptide-class-ii	1	10,584
Region 108.1	RiPP-like	3,058	9,770