

Abstract

Bacillus thuringiensis (Bt), a gram positive, biofilm-forming bacteria, was used to grow biofilms in chlorine treated wastewater from San Augustine WWTP, Nacogdoches WWTP, sterilized water, and tap water.

Biofilm – a community of microbial cells that form chains and attach to surfaces by secreting extracellular polymeric substances (EPS) like DNA, proteins, and polysaccharides

Scanning electron microscopy (SEM) was used to study the extent of biofilm growth as well as its structure.

Novogene: a global biotechnology company specializing in next-generation sequencing (NGS), transcriptomics, RNA-sequencing, and other bioinformatic services.

RNA-Sequencing (RNA-seq): A technique used to measure gene expression by identifying and quantifying RNA transcripts, showing which genes are active and how their activity varies under different conditions.