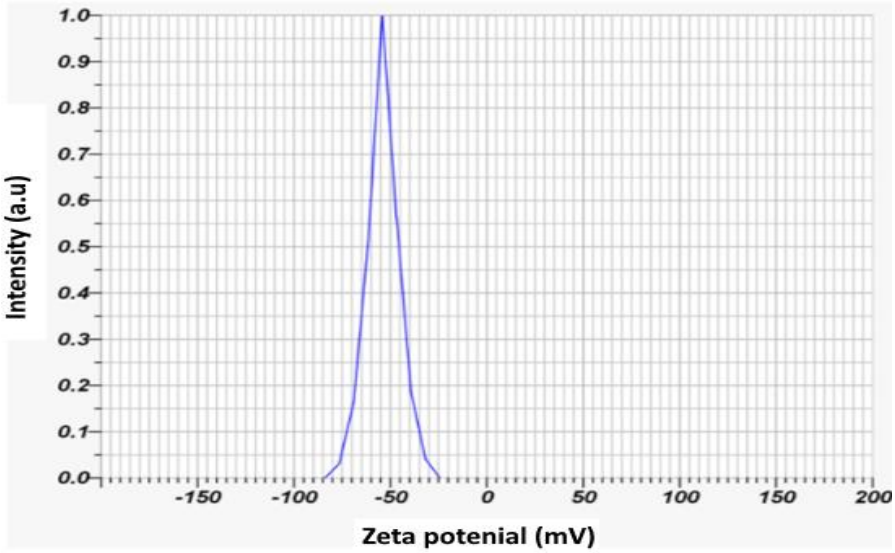
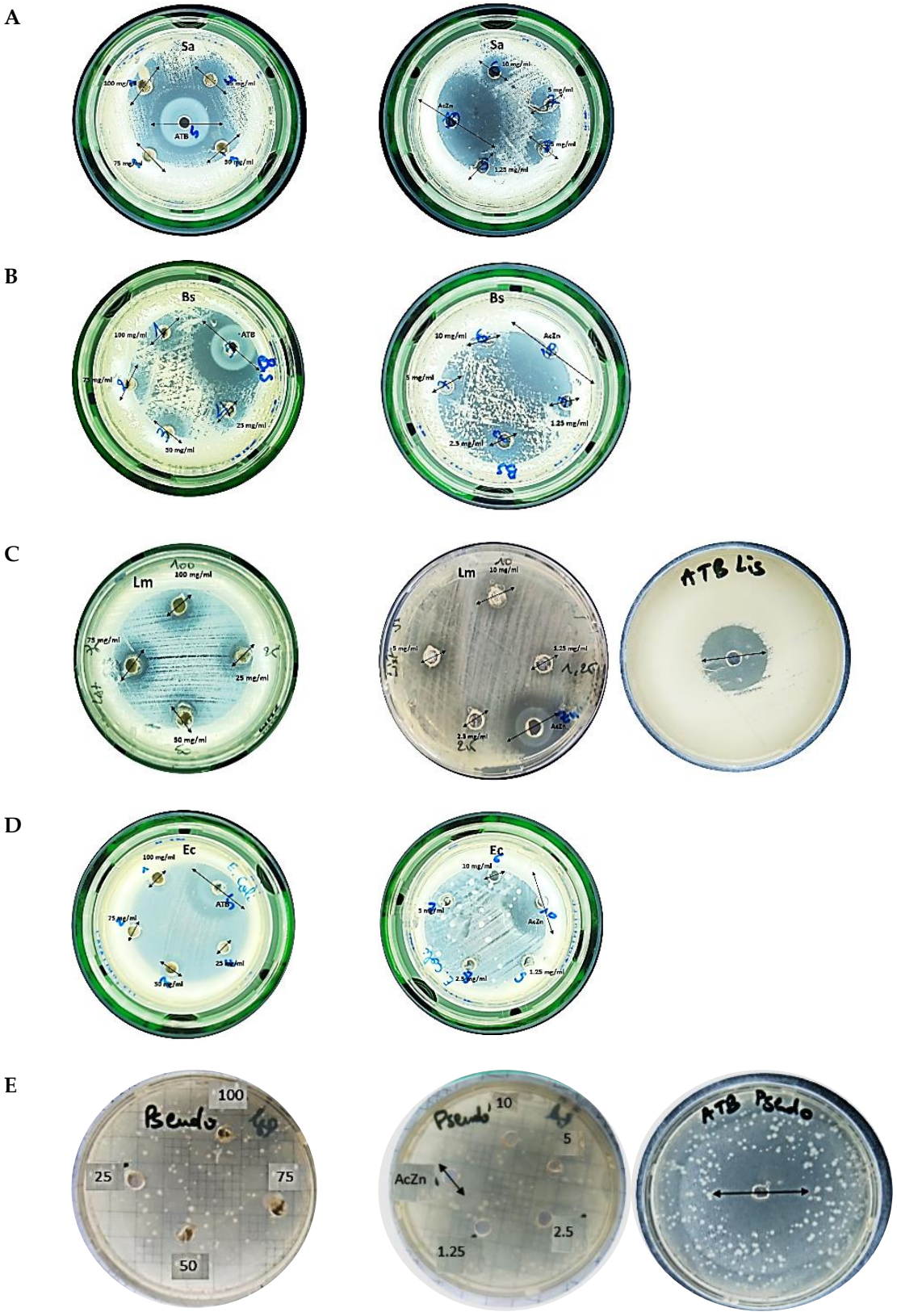
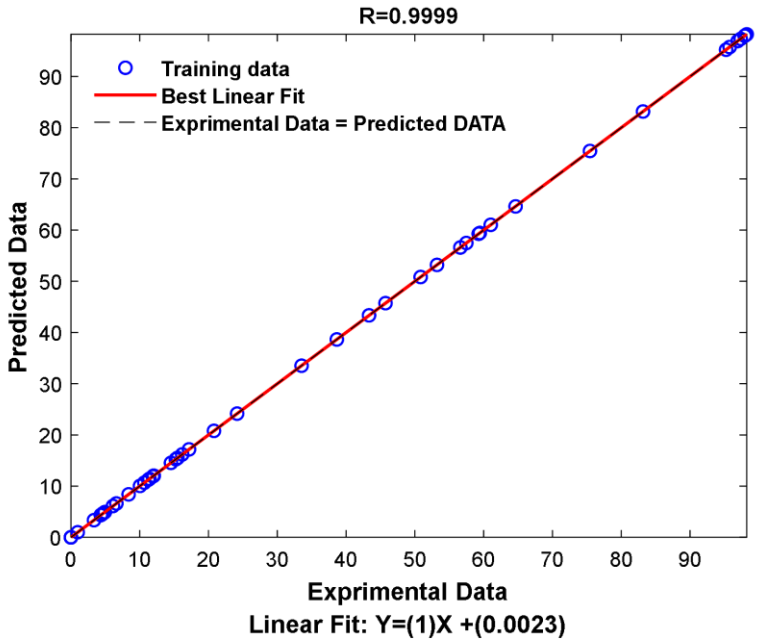


Figure S1. Zeta potential of ZnO-NPs (E= -53.8 mV)

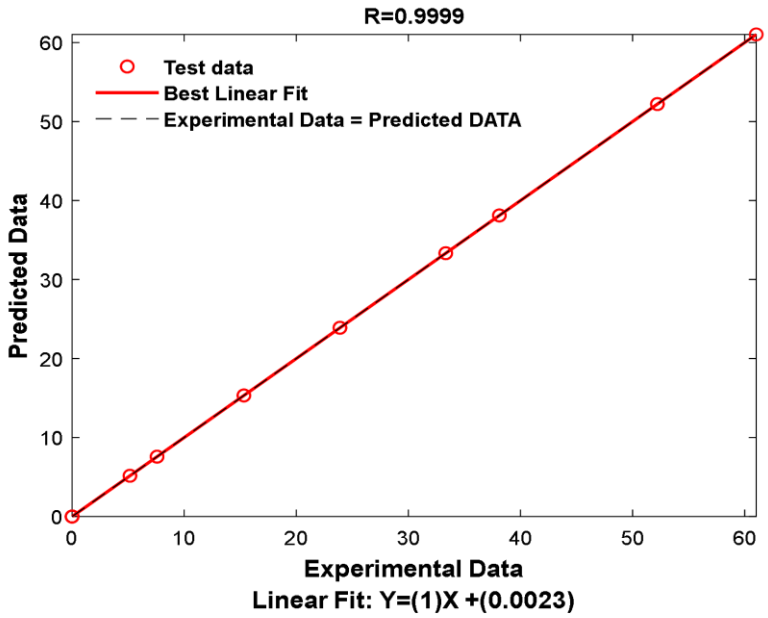


SZ : bacterial growth slowing zones.* ***AcZn*** *: Zinc acetate*

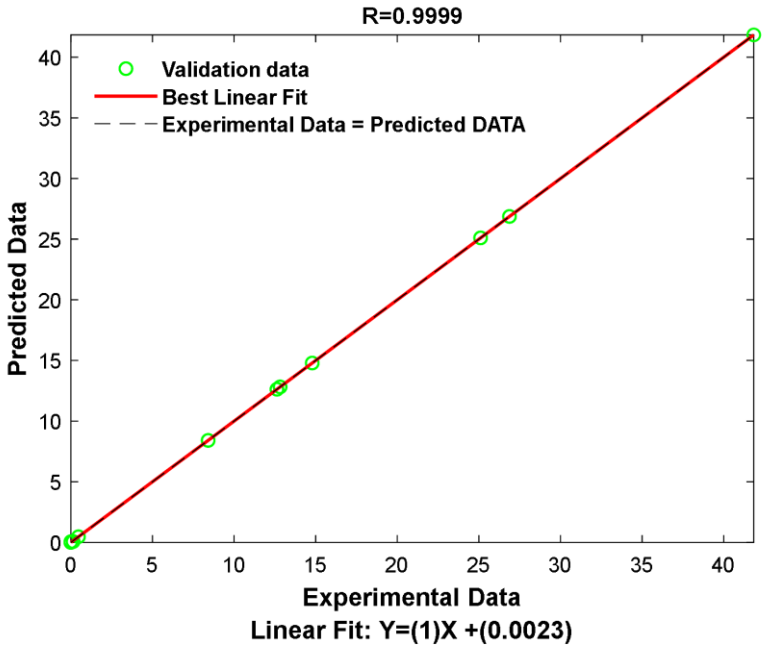
Figure S2. Pictorial presentation of bacterial growth inhibition by ZnO-NPs **(a)** effect of different concentrations of ZnO-NPs against *S. aureus* **(b)** *B. subtilis* **(c)** *L. monocytogenes* **(d)** *E. coli* **(e)** and *P. aeruginosa*.


R=0.9999
Training data
Best Linear Fit
Exprimental Data = Predicted DATA
Predicted Data
Exprimental Data
Linear Fit: Y=(1)X +(0.0023)

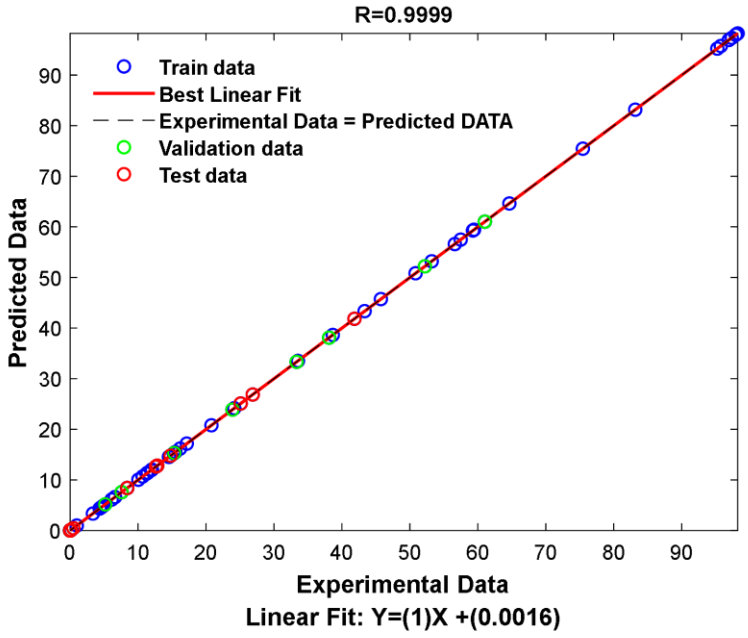
(a)


R=0.9999
Test data
Best Linear Fit
Experimental Data = Predicted DATA
Predicted Data
Experimental Data
Linear Fit: Y=(1)X +(0.0023)

(b)



(c)



(d)

Figure S3. Comparison between experimental and predicted values: (a) training phase, (b) Test phase, (c) Validation phase, and (d) All phases.