Supplementary Materials: Influence of Cysteine and Tryptophan Substitution on DNA-Binding Activity on Maize Alpha-Hairpinin Antimicrobial Peptide

Daniel A. Sousa, William F. Porto, Maria Z. Silva, Tatiane R. da Silva and Octávio L. Franco

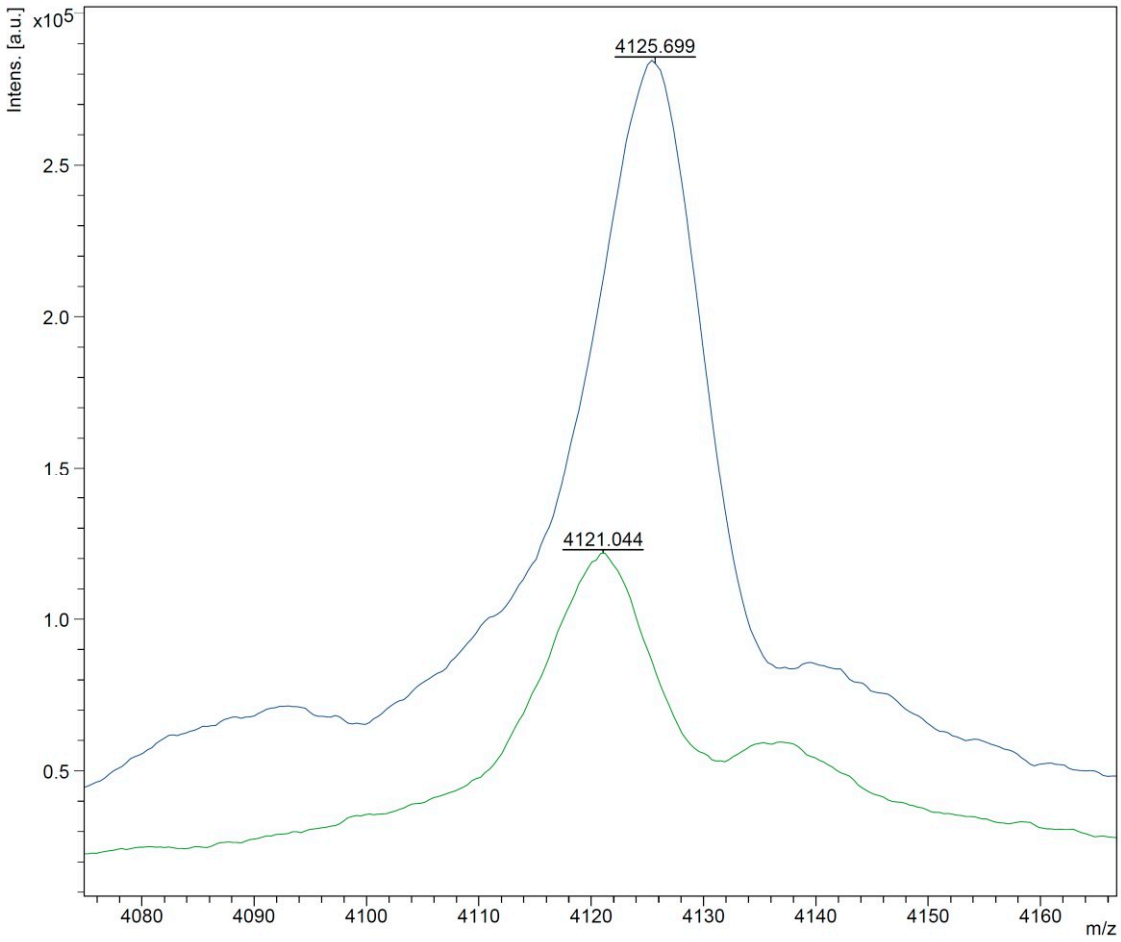

Figure S1. MBP-1 mass spectrum before (higher peak—4125.69) and after folding (lower peak—4121.04), showing 4 kDa decrease related to cysteine oxidation.

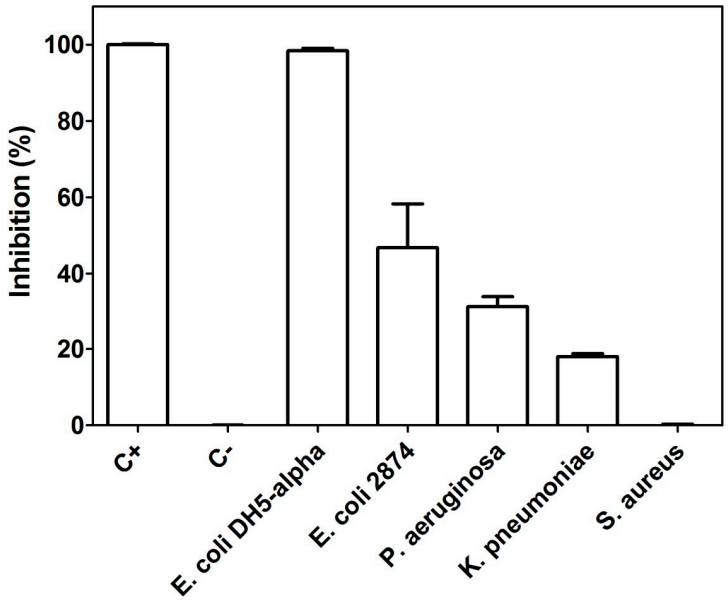

Figure S2. Bactericidal assays. Five bacterial lineages were incubated with 50 μM of MBP-1. After 2.5 h it was possible to observe the difference in inhibition, which was more pronounced in *E. coli* DH5-α. This strain was chosen for subsequent assays. Chloramphenicol (0.25 mM) was used as positive control, and ultrapure water as negative control.

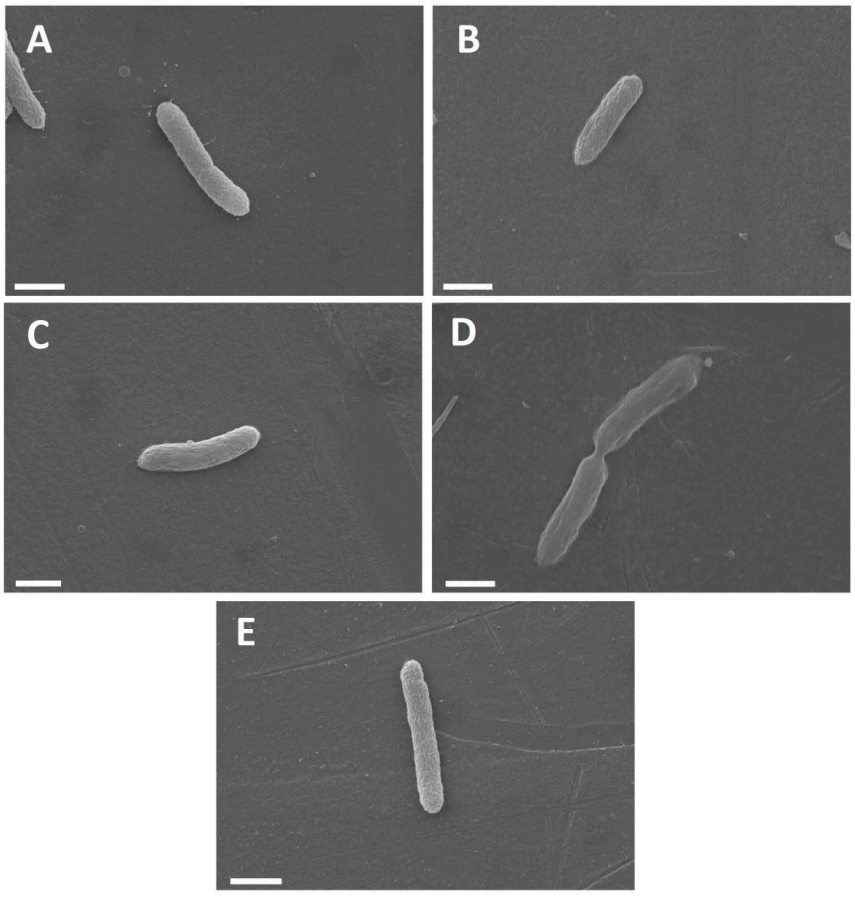

Figure S3. Scanning electron microscopy of *E. coli* cells, treated with MBP-1 at 50 μM (**A**); 100 μM (**B**) and Var 1 at 50 μM (**C**); 100 μM (**D**); No peptide as control (**E**). Scale bar 1 μm. Magnification 14,000× (**A**,**B**,**D**), 13,000× (**C**) and 15,000× (**E**).