Bacteria of genus Bacillus were isolated from soil and their antagonistic activity in vitro against the fungus Macrophomina phaseolina was evaluated in different culture media. The culture media tested were Potato-Dextrose-Agar (PDA), Nutrient Agar (NA), Trypticase-Soy-Agar (TSA) and the mixture NA-PDA (2:1). M. phaseolina radial growth was 34.7 ± 2.5 mm in PDA, 29.0 ± 1.0 mm in AN:PDA, 27.3 ± 3.1 mm in NA and 20.0 ± 3.0 mm in TSA. The fungus showed optimal growth in media or mixture containing PDA. All Bacillus isolates inhibited M. phaseolina micelial growth in media NA and TSA, with percentages in the range of 38 % to 65 %, respectively. Only the isolate CBCK08 inhibited the fungal growth in all media and mixture evaluated. The use of the media NA and TSA in the assays produces higher inhibitory effects on M. phaseolina growth, in contrast to the use of PDA where the growth of the antagonistic bacteria is limited.

Keywords
Growth inhibition, biocontrol, antagonism.