****

**Fig 2A**



Fig. 2B



Fig. 2.C

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Fig. 2D

SM Figure 2 – Phylogenetic tree built by *Neighbor-joining* method using Jukes and Cantor model for ITS1-5,8S-ITS2 sequence isolated from sugarcane root and rhizosphere. Reference sequences of GenBank were used and the sequences obtained in the present work were signaled with the following symbol **♦**. *Bootstrap* values (n=1000) lower than 50 are represented in nods.

**a)** 70 fungi of *Penicillium* genera, using the ascomycota *Buergenerula spartinae* as outgroup;

**b)** 39 fungi of *Fusarium* genera, using the ascomycota *Bionectria ochroleuca* as outgroup.

**c)** 17 fungi of *Aspergillus* genera, using the ascomycota *Penicillium pinophilum* as outgroup;

**d)** 11 fungi of *Trichoderma* genera, using the ascomycota *Hypomyces aurantius* as outgroup.