Reaction of *Solanum* (section *Lycopersicon*) accessions to *Phytophthora capsici* isolates / Reação de acessos de *Solanum* (Secção *Lycopersicon*) a isolados de *Phytophthora capsici*. R. Petry¹; M. L. Paz-Lima²; A.C. Café-Filho³; L. S. Boiteux⁴; A. Reis³. ¹UDESC-CAV, Lages-SC; ²IF Goiano, Campus Urutai, Urutai-GO; UnB, Depto. Fitopatologia, Brasília-DF; ⁴Embrapa Hortaliças, 70351-970, Brasília-DF, Brazil. E-mail: ailton.reis@embrapa.br

Members of the Solanaceae family are reported as hosts of the soil-borne pathogen Phytopthora capsici. Sources of resistance to P. capsici in tomato and related wild species are yet scarce. A germplasm collection [comprising 244 Solanum (section Lycopersicon) accessions] was evaluated against an array of P. capsici isolates in bioassays conducted under controlled greenhouse conditions. Initially, 35 day-old plants were inoculated at the collar area with a 3 mL spore suspension (2 x 104 zoospores per mL) using a P. capsici isolate obtained from infected Capsicum plants. Disease incidence (dead plants / total plants) was assessed 14 days after inoculation. The accessions were discriminated into five well-defined reaction groups; highly resistant, resistant, moderately susceptible, susceptible, and highly susceptible. The response to P. capsici in this Solanum (Lycopersicon) germplasm displayed a host species-dependent reaction with susceptibility being more often found in S. peruvianum accessions, whereas higher levels of resistance were identified among the cultivated tomatoes (S. lycopersicum) accessions. In two subsequent bioassays, a subgroup of the ten accessions identified with the highest levels of resistance in the first assay was evaluated for reaction to five P. capsici isolates. Differential reaction of these selected Solanum to distinct P. capsici isolates was observed. Sources of stable, wide-spectrum resistance were identified.

Key words: Tomato, Phytophthora wilt, resistance, soil-borne disease.