A nematicide, beauvericin (1), was isolated from cultures of the fungus *Fusarium bulbicola*, and its structure was identified by spectroscopic analysis. Compound 1 showed nematicidal activities against the pine wood nematode *Bursaphelenchus xylophilus* and the free-living nematode *Caenorhabditis elegans*.

**Key words:** Beauvericin, Nematicide, *Fusarium bulbicola*