

Method for increasing biomass yield of switch grass (*Panicum virgatum*) using a microbiological biopreparation involves treating switch grass crops with the biopreparation during the growing season. A microbial biopreparation that contains the following microorganisms: *Trichoderma harzianum*, *Streptomyces* sp., *Pseudomonas fluorescens*, and phosphate-mobilizing bacteria: *Bacillus megaterium* var. *phosphaticum*, *Bacillus subtilis*, *Bacillus mucilaginosus*, *Enterobacter* sp., with a total number of viable producer microorganism cells of at least $1.0\text{--}1.5 \times 10^8$ CFU/g is used, which is applied via fertigation directly to the row zone of the switch grass crop at a dose of 0.3 l/ha of the biological preparation, with a working solution application rate of 30 l/ha.