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Czech J. Genet. Plant Breed.

B.: Seed protein electrophoresis for assessment of genetic variation within genotypes of meadow fescue (*Festuca pratensis* Huds)

Czech J. Genet. Plant Breed., 46 (2010):
S75-S81

The protein diversity of 45 genotypes (forty genotypes selected within two gene pools and five varieties) of meadow fescue was examined. Genetic variation was described using ISTA/UPOV methods for crop variety identification. Modifications of acid-PAGE of alcohol-soluble proteins (prolamins), and SDS-PAGE of salt-soluble proteins (globulins) were elaborated for seed analyses of *Festuca pratensis* Huds. The results of this study indicated that the genotypes of meadow fescue could effectively be differentiated on the basis of polymorphism, detected between protein patterns. SDS-PAGE presented a higher differentiation power and better repeatability; thus could be used as a rapid and reliable method for the identification of *F. pratensis* genotypes in breeding programmes and the seed industry.

Keywords:

acid-PAGE; genetic diversity; meadow fescue; SDS-PAGE

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