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# **Czech J. Genet. Plant Breed.**

**L., Alvarez J.B.:**

**Association between  
the HMW-glutenin  
subunits and gluten  
strength  
characteristics in  
khorassan wheat lines  
- Short  
Communications**

Czech J. Genet. Plant Breed., 45 (2009):  
169-172

Khorassan wheat (*Triticum turgidum* ssp. *turanicum* Jakubcz em. A. Löve & D. Löve) is an ancient tetraploid wheat that was grown in the Mediterranean region and Near East. Sixteen lines differing in the composition of high-molecular-weight glutenin subunits (HMWGs) were evaluated for SDS-sedimentation volume and quality index (QI). The data suggested that the two subunit combinations detected in the examined

materials at the *Glu-B1* locus showed differences in both characteristics (relatively higher levels at the presence of the subunit combination 7+15 compared to 6+8). Weak gluten is in general characteristic of this wheat species. It could be used in a better way for other baking applications than for the pasta industry.

**Keywords:**

bread-making quality; electrophoresis; seed storage proteins; *Triticum turgidum*

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