

WINTER WHEAT PS LUBICA

Winter wheat (*Triticum aestivum* L.)

Registered: Slovak Republic, 2014

Breeders' rights: National Agricultural and Food Centre (NAFC), Slovak Republic

Breeder and maintainer: National agricultural and food centre – Research Institute of Plant Production Piešťany – Research and Breeding Station Vigľaš-Pstruša, Slovak Republic

Pedigree: *Triticum aestivum* (winter type) × *Triticum spelta* (winter type) *Estica* × *Renval*

Description: Regarding the nutritional quality cultivar retains spelt quality while achieving high grain yield (90% in comparison to standard cultivar), the grain is not necessary to hull! PS Lubica is late cultivar, ear is long, sparse, coloured, 1000-kernel weight is 50 g. Cultivar is less resistant to lodging.

Grain quality: The cultivar has very high protein and gluten content, falling number is high and stable, flour water absorption is high (Table 1).

Disease resistance: PS Lubica has average resistance to leaf spot, leaf rust, powdery mildew, ear diseases (fusarium).

Other characteristics: Cultivar is suitable for growing in all growing regions. Good yield achieve after better foregoing crops. Recommended seeding rate is 4.5 million germinated seeds per ha in maize production area and 5.0 million germinated seeds per ha in sugar beet and potato production area.

T a b l e 1

Results of quality analysis (from Official Trials)

Cultivar	Protein [%]	Falling number [s]	Wet gluten [%]	Gluten index	Sedimentation index [ml]	Flour water absorption [%]	Dough development [min]	Dough stability [min]	Dough softening after 10 min. [FJ]	Dough softening after 12 min. [FJ]	Farinograph quality number
PS Lubica	16.2	344	39.3	30	28	61.6	3	2.2	97	127	43
<i>Tr. spelta</i> Ōko-10	13.4	360	37.9	9	19	54.3	1.8	1.5	113	130	29
<i>Tr. aestivum</i> Josef	11.6	381	25.9	74	36	58.1	3.3	4.3	65	90	63

Ing. Andrea Hanková, PhD., Ing. Ľubomír Rückšloss, Ing. Katarína Matúšková, PhD., National agricultural and food centre – Research Institute of Plant Production Piešťany – Research and Breeding Station Vigľaš-Pstruša 334, 962 12 Detva, Slovak Republic. E-mail: hankova@vurv.sk, ruckšloss@vurv.sk, matuskova@vurv.sk