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DEVELOPMENT OF A NOVEL SOYBEAN CULTIVAR SUINONG 44

Suinong 44 was obtained through hybridization breeding of soybean varieties. Kenfeng 16 and Suinong 22 were used as female and male parents, respectively. In April 2016, this variety passed the examination and was approved by Heilongjiang Committee of Crop Variety Examination and Approval because of its outstanding characteristics, such as high-yielding, disease-resistant, strong lodging resistance, high density, as well as good agronomic characters. The protein content of Suinong 44 was 39.59% and the fat content was 20.74%. The growth period of Suinong 44 is 118 days, during which the total sum of temperature to be actively accumulated should be about 2320°C. In 2013 and 2014, the average yield of regional test was 3137.6 kg/ha, and the yield was 10.6% higher than the control variety of Hefeng 51. In 2015, the average yield of production test was 3311.8 kg/ha, and the yield was 83.1% higher than the control variety of Hefeng 51. The cultivar is suitable for growing in the central part of Heilongjiang province. Suinong 44 is suitable for sowing in early May, with seedling density of 240000-300000 per hectare, or seedling density of 400000 per hectare with narrow row close planting. Under normal conditions of cultivation, application of fertilizer diammonium phosphate 135 kg/ha, urea 20 kg/ha and potassium 45 kg/ha is needed for optimal production.

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