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abstract An investigation into the influence of genetic modification on p should include physical characte- ristics affecting their technological usa tubers of 15 clones of cultivar Irga transformed with viral genome seque improve their resistance to a necrotic strain of potato virus Y (PVYN) we mechanical properties of potato tubers were determined using a compr expressed by fracture stress, F(kPa); fracture strain, D (%); and Young I The variability of F, D, and E for particular clones measured by standard extremely high. However, the influence of the modification type and bre appeared to be statistically significant but irregular during the three-yea cultivation. While the effect of cultivation year was unmistakable, the or values for the particular clones was not constant in the successive year