

ABSTRACT**PRODUCTION OF STILBENES IN TRANSGENIC PLANTS AND THE
METHOD OF PRODUCING THEREOF**

5

A transgenic plant in which at least one stilbene synthase (STS) gene construct is transformed therein, and with the constitutive production of the corresponding stilbene synthesized by the transgenic STS enzyme, while maintaining fertility and normal physiological development. The preferred embodiment contains transgenic resveratrol synthase in red-leaf lettuce. The method of production includes choosing a recipient plant that does not contain an endogenous stilbene synthase gene encoding the specific STS enzyme, but contains high levels of the precursors of the transgenic STS enzyme.

15

FIG. 1