Title of the invention: SONICATION AND VACUUM INFILTRATION ASSISTED SOYBEAN SEED TRANSFORMATION USING AGROBACTERIUM TUMEFACIENS

Abstract:
The invention presents a tissue culture and genotype-independent method of in planta transformation of an intact soybean seed mediated by Agrobacterium tumefaciens and subsequent direct production of whole plant from seed. The method provides a non-invasive means of infecting the seed using sonication for wounding and vacuum infiltration for infecting the intact seed. The transformed seeds are screened using the BASTA® and the resistant putatively transformed plant leaves were subjected to histochemical GUS assay.

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