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CGMMV Resistant Watermelon Rootstock and Environmental Risk Assessment

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Objectives:

To study the environmental assessment of transgenic watermelons

Material and Methods:

1. Material: T_2 and T_3 generation of transgenic watermelon rootstock
2. Methods: Transgenic watermelon rootstocks that were resistant to CGMMV.

Results and Discussion:

There was no significant difference in horticultural characteristics between transgenic plants and non-transgenic plants. Also, the *CGMMV-CP* DNA and coat protein in the rootstock did not transfer to scion suggesting that the watermelon rootstock would not necessarily be tested for the health risk assessment.

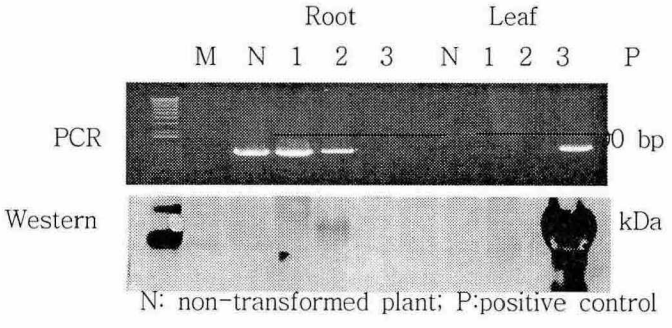

Fig 1. When grafted, CGMMV-CP DNA and protein in rootstock were not transferred to the non-GM watermelon (scion).

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