

### 苹果半矮化砧木新品种 ‘青矮2号’

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### A New Apple Semi-dwarfing Rootstock Cultivar ‘Qing Ai 2’

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摘要 ‘青矮2号’是由M<sub>9</sub>自然实生后代中选育而成的苹果半矮化砧木。树冠中等, 长势中庸, 节间长2.3 cm。嫁接基础(平邑甜茶)成活率88.2%, 嫁接品种成活率100%。3年生矮化中间砧幼苗生长量278 cm, 出圃率88.2%。作中间砧嫁接红富士, 基础/中间砧干周比为1.18, 品种/中间砧干周比为0.81, 接口无肿瘤, 无气生根, 亲和力强; 嫁接红富士盛果期树, 树高3.80 m, 冠径3.63 m, 矮化性与砧木M<sub>7</sub>相近, 属半矮化砧木; 嫁接红富士树, 2年生树结果株率为26.7%, 7~14年生树平均产量43 140 kg · hm<sup>-2</sup>; 果实可溶性固形物为14.3%, 硬度为8.1 kg · cm<sup>-2</sup>, 果形指数为0.85。适宜在山东、陕西、山西、河南、河北等苹果主产区应用。

关键词: 苹果 砧木 品种

Abstract: ‘Qing Ai 2’ is a new apple semi-dwarfing rootstock selected from the M<sub>9</sub> seedlings. Not only its crown but also its growth is medium. The internode is 2.3 cm long. The survival rate grafting on the rootstock (Pingyi Tiancha) is 88.2%, while that on the cultivar is 100%. The growth of the 3-years-old dwarfing interstock is 278 cm, while the nursery rate is 88.2%. Grafting on the interstock, The ratio of the trunk of the rootstock/interstock is 1.18, while that of the cultivar/the interstock is 0.81. The grafting union is not swelling, without air root, which shows it has high grafting affinity. Grafting on the interstock in high yield year, The Fuji tree has a 3.80 m height and a 3.63 m crown diameter. It belongs to a semi-dwarfing rootstock which is similar to M<sub>7</sub>. 26.7% of the Fuji grafting on the interstock begin to produce at 2 years old. The average yield of the tree of 7~14 years old is 43 140 kg · hm<sup>-2</sup>. The soluble solids content of the Fuji is 14.3%, the hardness is 8.1 kg · cm<sup>-2</sup>, and the fruit index is 0.85, which is suitable for the application in the main dwarfing apple production area such as Shandong, Shaanxi, Shanxi, Henan and Hebei.

Keywords: apple, rootstock, cultivar

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