

葡萄柚新品种‘桂葡萄柚二号’的选育

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摘要:‘桂葡萄柚二号’是由‘红马叙’葡萄柚芽变单株选育而成。果实扁圆形,成熟期果皮不套袋为黄绿色,套袋后呈粉红色;果面光滑,果肉和囊瓣均为粉红色;果肉细嫩化渣,酸甜苦味适中,具有浓郁的葡萄柚风味。平均单果质量 350 g,最大单果质量 390 g;果形优美,果形指数 0.87;每果实含种子 3~5 粒。果汁率 55.7%,可溶性固形物含量 10.1%,可食率 79.41%,总糖 55 g·L⁻¹,总酸 0.8%,糖酸比 6.87,维生素 C 含量 325 mg·kg⁻¹,品质上乘;产量高,株产 52.5 kg。果实生育期 240 d,在广西南宁果实于 11 月中下旬成熟;萌芽率高,成枝力强,适应性强。耐贮性好,货架期达 60 d,冷藏可达 6 个月。该品种适合在广西南宁地区栽培,第 3 年开花后可投产,树势生长旺盛,丰产稳产。

关键词:葡萄柚;新品种;‘桂葡萄柚二号’;芽变选种

中图分类号: S666.3

文献标志码: A

文章编号: 1009-9980(2017)05-0646-03

Breeding report of a new grapefruit cultivar ‘Gui-grapefruit No.2’

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Abstract: ‘Gui-grapefruit No.2’ is a new grapefruit cultivar with excellent appearance. The variety was derived from a bud mutation of ‘Red-Marsh’ grapefruit. The variation maternal plant was discovered for its bigger fruit size and better fruit quality, more vigorous tree and higher resistance of citrus canker, in an orchard of ‘Red-Marsh’ grapefruit which was planted in 2008 in Tanle village, Wuming county, Nanning, Guangxi. This variety is a medium tree when grafted on lime rootstock, attaining a height of 2.8 m. The tree is medium vigorous with natural roundhead shape. Leaves on spring shoots are ovate, 8.13–9.81 cm long and 3.86–4.78 cm wide. The flower is large white complete flower with mostly five petals and 25 to 28 stamens, solitary or cymose. Fruiting position is mainly on the top of spring shoots. The fruit is oblate. The fruit peel is smooth and yellowish-green without bagging vs. pink with bagging. The flesh is pink, melting, sweet and moderate sour and bitter taste, with intense grapefruit aromas and flavor. The average fruit weight is 350 g and the maximum fruit weight is 390 g. The fruit shape index is 0.87. There are 3–5 seeds per fruit. The fruit quality is excellent with 55.7% juice yield, 10.1% total soluble solid content, 79.41% fruit edible rate, 55 g·L⁻¹ total sugar content, 0.8% total acidity content, 6.87 sugar-acid ratio and 325 mg·kg⁻¹ vitamin C content. The fruit development period is 240 d and the mature stage is from the middle to late of November in Nanning area of Guangxi. The branching ability is strong. It is resistant to citrus canker etc. The fruit has very long storage life. The cold storage life is six months. Suitable cultivation area is Nanning area of Guangxi, this variety can bear fruits at the third year after planting with high and stable yield potential. Orchard should choose neutral sandy soil which is flat and has ability of moisture and fertilizer retention. Virus-free seedlings are necessary to prevent diseases from the beginning. Spacing in rows and spacing between rows are (2.5–3) m×4 m and the best field planting density is 825 to 990 trees per hm². Fruit should be harvested timely. Great attention should be paid on the disease and insect preventing, especially on Huanglongbing and citrus canker.

Key words: Grapefruit; New cultivar; ‘Gui-grapefruit No.2’; Bud mutation

收稿日期: 2016-12-26 接受日期: 2017-02-02

基金项目: 2015 年广西高校科研项目(KY2015YB428); 专业(学术)带头人和中青年骨干教师(桂农职院发[2016]33 号)

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