

Report of new cultivar “INIVIT FB-4”, NEW PAPAYA (*Carica papaya* L.) CULTIVAR FOR CUBAN AGRICULTURE

Reporte de nuevo cultivar “INIVIT fb-4”, nuevo cultivar de papaya (*Carica papaya* L.) para la agricultura cubana

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ABSTRACT. In Cuba it is necessary to obtain new cultivars of papaya (*Carica papaya* L.) since it is considered a fruit with high nutritional value and is widely used in diets, has great national and international acceptance. In our country there are several favorable soil and climate areas for the development of the crop. To obtain the proposed new cultivar, targeted crosses were carried out among the cultivars of papaya, “NARAN” and “Criolla”. The cultivar “INIVIT fb-4” stands out for its agronomic characteristics and its high yield potential (87,32 t ha⁻¹).

Key words: fruit, yield, crosses

INTRODUCTION

At present, the fundamental problems that affect papaya cultivation are the low number of commercially exploited cultivars and the susceptibility to pests. One solution to this problem is to the expansion of the genetic base of papaya, through breeding programs that allow to obtain cultivars that diversify the market, both for fresh and for industry. In the Institute of Tropical Root and Tuber Crops (INIVIT), for several years, a genetic improvement program has been developed in this crop, aimed at identifying and obtaining new genotypes. The cultivar presented in this work can be an option to satisfy the demand of the consumers of the crop.

ORIGIN AND DESCRIPTION

Through reciprocal crosses between the cultivars “NARAN” and “Criolla”, as well as backcrosses in the second generation with the cultivar “Criolla”, 40 progenies were selected from which, with a simultaneous selection of important characters evaluated as tolerance to virus, height of the plant, fruit quality and productive potential, it was possible to obtain a group of genotypes with desirable agronomic characteristics and phenotypic stability in the sixth generation, among which the papaya cultivar “INIVIT fb-4” was highlighted, which was established in the eighth generation.

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RESUMEN. En Cuba resulta necesario contar con nuevos cultivares de papaya (*Carica papaya* L.) ya que es considerada una fruta con alto valor nutritivo y se utiliza ampliamente en dietas alimenticias, tiene gran aceptación a nivel nacional e internacional. En el país existen diversas áreas edafoclimáticas favorables para el desarrollo del cultivo. Para la obtención del nuevo cultivar propuesto se realizaron cruzamientos dirigidos entre los cultivares de papaya, “NARAN” y “Criolla”. El cultivar “INIVIT fb-4” se destaca por sus características agronómicas y su alto potencial de rendimiento (87,32 t ha⁻¹).

Palabras clave: fruta, rendimiento, cruzamientos

MORPHOLOGICAL CHARACTERISTICS OF CULTIVAR “INIVIT FB-4”

- ◆ Average height of the plant: 122 cm; Diameter of the stem: 23.5 cm
- ◆ Number of leaves at 90 days: 25.3; Distance between knots: 2.8 cm
- ◆ Limb length: 34.4 cm; Limb width: 42 cm
- ◆ Leaf color: green; Petiole color: light green
- ◆ Height of flowering: 47.3 cm; Tolerance to viruses and diseases: moderate

FRUIT FEATURES

Average fruit mass: 5.24 kg
Thickness of the mesocarp: 5.4 cm
Diameter of the placental cavity: 9.2 cm
Shape of the fruit: Piriform-elongated
Shape of the central cavity: starry
Color of the mesocarp: yellow-orange
Yield: 87.32 t ha⁻¹



Cultivate papaya INIVIT fb-4

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