Acceptance of banana cultivars resistant to Black Leaf Streak by consumers of the Brazilian Northeast region

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Introduction

In Brazil, many resistant cultivars are being developed, but if the consumer’s preference is not taken into account, the breeding program may not succeed.

Experimental

Material

Six resistant cultivars:

» Vitoria
» Maravilha
» PA4244
» FHIA 18
» Tropical (Maçã type)
» Buccaneer (Gros Michel type)

Two commercial cultivars, not resistant:

» Prata Anã;
» Maçã.
Sensory Analysis

Samples were analyzed in three steps:

» analysis of the first four samples, in individual booths;

» analysis of the external appearance of banana tiers of all eight cultivar samples;

» return to the booth for analysis of fruits of the four remaining samples.

Hedonic scale:

Statistical:

» ANOVA by SAS ® program;

» Internal Preference Mapping (MDPREF) by XLSTAT program.
Results

Appearance

Overall Impression
Conclusions

- Cultivar PA 4244 presented high acceptance, related to both external appearance and palatability.

- Flavor and texture of Maravilha, Vitoria and FHIA 18 pleased consumers, but their appearance could be still improved.

- The cultivar Buccanero should not be disseminated based on the opinion of consumers from Brazilian Northeastern region.
Thanks!