

Biofortified Varieties

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- ❖ Pro- vitamin- A rich (2423 μg /100g fresh pulp) dessert banana hybrid
- ❖ 200 g of fruit pulp is sufficient to meet the recommended dietary allowance of Pro-Vitamin- A
- ❖ Fruits have unique flavour and taste with higher consumer acceptability
- ❖ Bunch weight ranged from 20 to 25 kg.
- ❖ Suitable for preparation of chips, juice and flour (baby foods, health mix etc.)
- ❖ Highly Resistant to *Foc* race 1
- ❖ Suitable for all banana growing region

NRCB Selection 16



This is a clonal selection from exotic introduction 2390-2 with ITC accession number 0553.

This is an unique member of AAA genome. Average yield is 17 kgs bunch with a potential to yield upto 22kgs. Fruit pulp is yellow in colour and contains 1060 μg of Pro vitamin A /100 of fresh pulp. Pseudostem is green with black blotches. Dark green fruits turn bright yellow upon ripening. Ripened fruit gets easily detached from pedicel. Tip of the fruit is blunt with persistent rudimentary floral relicts specifically stylar base.

PVA rich Transgenic Grand Nain

The biofortified Grand Nain was developed through transgenic method under Indo-Australian project. The Phytoene Synthase gene responsible for beta-carotenoid was isolated from Asupina banana and then inserted into the vector by QUT, Australia. These gene constructs were provided to Indian partners for Agrobacterium mediated transformation in cv. Grand Nain. Five Transgenic events of Grand Nain were found to have PVA content ranging from 760 to 1240 µg of Pro vitamin A /100 of fresh pulp which is 7 to 12 fold higher than the non transgenic Grand Nain.

