

Co 0124 (Karan 5)



Co 0124 is a selection from the progeny of the cross Co 89003 GC. This clone was identified from seedling ratoon nursery raised at Sugarcane Breeding Institute, Regional Centre, Karnal and was tested under the Pre Zonal Varietal Trial. It was selected as a midlate clone as it had pol % juice higher than CoS 767, CoS 8436 and Co 1148 during January and March. The cane yield and sugar yield of Co 0124 was higher than that of standards.

Salient characteristics

Medium thick yellow green canes with Concave-convex internodes, triangular-pointed buds, long lanceolate auricle and shallow bud groove. The clone is free from splits, spines on leaf sheath, pith and bud cushion. The fibre % is about 12.65 %. The jaggery is of A2 quality with light yellow colour. This clone is MR to the prevalent races of red rot pathogen by plug method of inoculation. However, it showed resistant reaction by nodal method of inoculation.

Performance of Co 0124 in North Western Zone

This clone has been evaluated under All India Co-ordinated Research Project in the North Western Zone. It ranked 2nd for sugar yield (9.68 t/ha), 3rd for cane yield (75.7 t/ha) and sucrose % in juice (18.22%) in the zone on the basis of average cane and sugar yields, and sucrose % recorded in 2 plant and 1 ratoon crops at 7 research stations in the zone. In comparison to the major check CoS 767 it showed about 8%, 13% and 3.5% improvement in cane yield, sugar yield and sucrose % in juice, respectively.

Recommendation

Co 0124 (Karan 5) has been released by the Central Sub-Committee on Crop Standards, Notification and Release of Varieties for Agricultural Crops during 2010. This variety would prove as a high quality midlate maturing clone under assured irrigation areas. This could be suitable substitutes for CoS 8436.