



Quality Characterization in Carrot (*Daucus carota* L.) Germplasm

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Abstract: Thirty eight genotypes were tested in a randomized complete block design with three replications to determine the variation in quality characters like total soluble solids, sugar content, dry matter, β carotene content, anthocyanin content and juice yield. The highly significant differences for all the traits indicated the presence of wide variability in the genotypes. The juice yield ranged from 543.33-425 ml/kg, TSS from 8.28-6.55% and dry matter from 8.70-6.78%. Genotypic and phenotypic coefficients of variation were found to be higher for β carotene (GCV=4.62) and (PCV=33.26). High heritability (98.11%) was observed for β carotene followed by sugar content (89.62%) and juice content (89.35%) which was associated with high genetic advance as percentage of mean for β carotene and sugar content.

Key Words: Carrot (*Daucus carota* L.), β -carotene content, Juice yield and TSS
