



## Development and characterization of new microsatellites for *Eugenia dysenterica* DC (Myrtaceae)

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**ABSTRACT.** Microsatellite markers were developed for population genetic analyses of the Neotropical tree *Eugenia dysenterica* DC (Myrtaceae), after construction of a shotgun genomic library for microsatellite discovery. Nine primers were designed, of which 5 yielded amplified product. These primers were polymorphic for 97 individuals collected in 3 distinct localities. The number of alleles per locus (primer) ranged from 3 to 11 and expected heterozygosities varied from 0.309 to 0.884. The probability of locus identity was  $\sim 1.88 \times 10^{-4}$  and the probability of paternity exclusion was  $\sim 0.9367$ . The 5 microsatellite primer pairs may be suitable for population genetic studies such as parentage and fine-scale genetic analyses of this species.

**Key words:** Cagaita; Cerrado; Genetic diversity; Shotgun library; Microsatellite