



Development of 18 microsatellite loci for the freshwater snail *Bellamya aeruginosa* (Mollusca, Gastropoda)

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ABSTRACT. Although it is a major freshwater gastropod species, genetic diversity of *Bellamya aeruginosa* was completely unknown. Eighteen microsatellite loci were isolated and characterized from (AC)₁₅-enriched genomic libraries of the freshwater snail *B. aeruginosa*. Most of the 18 loci were successfully amplified and high polymorphic information content values were found, ranging from 0.244 to 0.792 (mean 0.541). The number of alleles per locus ranged from 5 to 13 (mean 8.8), the expected heterozygosity varied from 0.347 to 0.950 (mean 0.815) and the observed heterozygosity varied from 0.087 to 0.782 (mean 0.431). Eight loci showed significant deviation from Hardy-Weinberg equilibrium after Bonferroni's correction and no significant genotypic linkage disequilibrium was detected between most locus pairs, except for TXH79-TXH97 and TXH113-TXH121. These 18 polymorphic microsatellite loci should be useful for population genetics analysis and species identification of *Bellamya*.

Key words: *Bellamya aeruginosa*; Microsatellites; Polymorphism; Heterozygote deficiencies