

TABLE S2 | Recent bottleneck tests in *Cnesterodon hypselurus* samples from locations in Cinzas River basin (CIN) and Lambari stream (LAM), Itararé River basin. Sign test and Wilcoxon sign-rank test for heterozygosity excess and Mode-shift test for patterns of allele frequency distribution. N = Number of individuals analyzed, H_e = number of loci showing heterozygosity excess, H_d = number of loci showing heterozygosity deficiency * Significant values for Wilcoxon sign-rank tests (P-value < 0.05), Normal L-shaped distribution = non-bottlenecked population. ^aInfinite allele model, ^bTwo phase model (90 % SSM), ^cStepwise mutation model

Samples	Wilcoxon sign-rank test							Allele frequency distribution
	N	IAM ^a		TPM ^b		SMM ^c		
		H_e/H_d	P	H_e/H_d	P	H_e/H_d	P	
CIN	30	5/3	0.078	5/3	0.343	4/4	0.718	L-shaped
LAM	20	5/3	0.710	3/5	0.812	1/7	0.992	L-shaped



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