

TABLE S4
Proportion of outlier loci (group structure) with the *NGS-individual model*

S_G	No. loci	ϕ	Neutral				Selective Sweep			
			$a = 0.5$ low	$a = 0.5$ high	$a = 0.95$ low	$a = 0.95$ high	$a = 0.5$ low	$a = 0.5$ high	$a = 0.95$ low	$a = 0.95$ high
1	25	ϕ_{ST}	0.004	0.030	0.002	0.009	0.000	0.025	0.000	0.000
		ϕ_{CT}	0.009	0.028	0.000	0.004	0.025	0.025	0.000	0.000
		ϕ_{SC}	0.007	0.024	0.000	0.000	0.000	0.150	0.000	0.025
	500	ϕ_{ST}	0.014	0.032	0.003	0.008	0.016	0.012	0.000	0.000
		ϕ_{CT}	0.019	0.032	0.003	0.009	0.048	0.008	0.012	0.000
		ϕ_{SC}	0.009	0.010	0.000	0.000	0.004	0.120	0.000	0.044
2	25	ϕ_{ST}	0.004	0.002	0.000	0.000	0.000	0.925	0.000	0.875
		ϕ_{CT}	0.020	0.017	0.002	0.000	0.225	0.100	0.175	0.025
		ϕ_{SC}	0.000	0.000	0.000	0.000	0.000	0.950	0.000	0.900
	500	ϕ_{ST}	0.006	0.002	0.000	0.000	0.000	1.000	0.000	0.988
		ϕ_{CT}	0.020	0.029	0.004	0.009	0.164	0.108	0.160	0.100
		ϕ_{SC}	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.988

Mean proportion of neutrally evolving and selected loci over 10 replicates identified as outliers with group structure for the *NGS-individual model*.