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Supplementary table 1: Nucleic acid concentrations (ng/μL) and average absorbance readings (OD_{260/280}; OD_{260/230}) of all extracted products measured on a NanoDrop One Spectrophotometer (Thermo Fisher Scientific, USA) showing tail tissue samples (T1–T50) grouped by species

Sample species	Sample	Nucleic acid (ng/μL)	OD _{260/280}	OD _{260/230}
<i>Bradypodion setaroi</i>	T1	5.563	1.866	0.550
	T2	4.566	2.186	0.638
	T3	10.162	1.572	0.906
	T4	7.435	2.352	1.049
	T5	6.120	2.215	1.359
	T6	17.262	1.599	1.259
	T7	9.063	1.782	1.054
	T8	5.343	1.773	1.006
	T9	6.649	1.828	0.980
	T10	13.775	1.611	1.170
<i>Bradypodion melanocephalum</i>	T11	18.265	1.907	1.749
	T12	6.244	1.680	0.658
	T13	8.009	1.768	0.515
	T14	8.281	1.787	1.210
	T15	4.790	1.542	0.955
	T16	6.155	1.766	1.243
	T17	6.812	1.551	1.220
	T18	10.637	1.808	1.429
	T19	3.969	2.544	1.054
	T20	15.412	2.470	0.838
<i>Bradypodion thamnobates</i>	T21	31.722	1.847	2.030
	T22	7.867	2.113	1.221
	T23	3.130	1.896	0.679
	T24	34.810	1.834	1.425
	T25	34.863	1.512	0.527
	T26	7.466	1.947	1.065
	T27	6.953	1.785	0.878
	T28	31.219	1.646	0.909
	T29	2.261	2.064	0.717
	T30	35.530	1.767	1.928
<i>Bradypodion damaranum</i>	T31	7.365	2.082	0.518
	T32	5.386	1.822	0.371
	T33	9.247	1.797	0.589
	T34	4.052	2.177	0.259
	T35	11.796	1.806	0.618
	T36	7.121	1.996	0.295
	T37	4.915	1.905	0.281
	T38	6.49	2.626	0.242
	T39	3.721	1.235	0.299
	T40	9.482	1.566	0.623
<i>Bradypodion ventrale</i>	T41	18.58	1.967	1.391
	T42	13.926	2.007	1.03
	T43	12.693	1.972	1.059
	T44	12.526	1.992	1.234
	T45	9.179	2.541	1.141
	T46	16.477	2.286	1.395
	T47	21.919	2.087	1.373
	T48	13.765	2.262	1.275
	T49	14.402	1.917	1.045
	T50	12.798	2.454	1.086

Supplementary table 2: Nucleic acid concentrations (ng/ μ L) and average absorbance readings (OD_{260/280}; OD_{260/230}) of all extracted products measured on a NanoDrop One Spectrophotometer (Thermo Fisher Scientific, USA) showing buccal swab samples (S1–S50) grouped by species

Sample species	Sample	Nucleic acid (ng/ μ L)	OD _{260/280}	OD _{260/230}
<i>Bradypodion setaroi</i>	S1	6.758	1.696	0.184
	S2	3.366	1.954	0.022
	S3	4.849	1.703	0.071
	S4	4.146	2.209	0.186
	S5	1.324	10.358	0.095
	S6	2.534	1.524	0.111
	S7	0.744	-7.222	0.006
	S8	0.540	-1.343	0.009
	S9	3.024	1.209	0.055
	S10	1.881	1.667	0.046
<i>Bradypodion melanocephalum</i>	S11	6.542	1.444	0.027
	S12	4.493	1.478	0.206
	S13	5.016	1.351	0.093
	S14	14.129	1.470	0.063
	S15	9.316	1.526	0.254
	S16	6.970	1.554	0.042
	S17	2.475	1.033	0.013
	S18	6.295	1.544	0.048
	S19	4.499	1.531	0.059
	S20	3.815	1.310	0.016
<i>Bradypodion thamnobates</i>	S21	2.434	1.122	0.042
	S22	7.602	1.645	0.081
	S23	3.978	1.418	0.049
	S24	2.644	1.138	0.017
	S25	3.166	1.691	0.030
	S26	7.445	1.389	0.044
	S27	8.224	1.408	0.085
	S28	10.485	1.541	0.100
	S29	17.891	1.415	0.410
	S30	1.980	1.167	0.122
<i>Bradypodion damaranum</i>	S31	3.206	1.398	0.508
	S32	2.845	1.369	0.475
	S33	2.754	1.497	0.5
	S34	2.599	2.786	0.459
	S35	2.161	1.325	0.446
	S36	2.632	1.125	0.564
	S37	3.086	1.503	0.473
	S38	4.075	1.001	0.616
	S39	2.715	1.091	0.487
	S40	3.728	1.79	0.606
<i>Bradypodion ventrale</i>	S41	4.619	1.271	0.873
	S42	2.746	1.1	0.618
	S43	4.243	1.234	0.814
	S44	14.669	1.399	0.677
	S45	1.826	1.03	0.584
	S46	3.667	1.288	0.833
	S47	2.628	1.14	0.649
	S48	1.89	1.305	0.56
	S49	1.969	1.453	0.582
	S50	1.208	1.458	0.555