

Table S1. Summary table that contains samples' information for the 182 triatomines analyzed.

Sample ID	Species	Stage	Country	Department	Municipality	Parasite load	Log10 parasite load	DTU
35	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	35,397,384	7.5489712	Tcl
63	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	85,356,448	7.9312363	Tcl
75	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Tipacoque	14,829,605	7.1711296	Tcl
84	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Tipacoque	61,558,340	7.7892869	Tcl
87	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	1,157,104,320	9.0633725	Tcl
94	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	2,311	3.3637999	Tcl
101	<i>Triatoma dimidiata</i>	Nymph	Colombia	Boyacá	Tipacoque	324	2.5105450	Tcl
113	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	1,461,363,200	9.1647582	Tcl
121	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	9,165,565	6.9621592	Tcl
122	<i>Triatoma dimidiata</i>	Nymph	Colombia	Boyacá	Soatá	8,663	3.9376683	Tcl
124	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Tipacoque	715	2.8543060	Tcl
132	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	271,009	5.4329837	Tcl
134	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	24,664,522	7.3920727	Tcl
157	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Socota	12,094	4.0825700	Tcl
159	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	52,042,616	7.7163591	Tcl
160	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Boavita	10,906	4.0376655	Tcl
167	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Susacón	5,902	3.7709992	Tcl
172	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	878,414	5.9436992	Tcl
173	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Socota	30,407,030	7.4829740	Tcl
186	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Socota	2,129,457	6.3282689	Tcl
196	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	5,262,563	6.7211973	Tcl
203	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Boavita	906	2.9571282	Tcl
215	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	35,752,096	7.5533015	Tcl
221	<i>Triatoma dimidiata</i>	Nymph	Colombia	Boyacá	Tipacoque	15,968	4.2032505	Tcl

235	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Tipacoque	42,480	4.6281845	Tcl
243	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Socota	121,577,568	8.0848535	Tcl
244	<i>Triatoma dimidiata</i>	Nymph	Colombia	Boyacá	Panqueba	19,033,480	7.2795182	Tcl
247	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	San Mateo	48,741,376	7.6878978	Tcl
253	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Soatá	30,008,396	7.4772428	Tcl
265	<i>Triatoma dimidiata</i>	Adult	Colombia	Boyacá	Socota	60,196	4.7795676	Tcl
DNA 132d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Paz de Ariporo	-	-	-
DNA 133d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Paz de Ariporo	31,704,430	7.5011199	Tcl
DNA 134d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Paz de Ariporo	-	-	-
DNA 136	<i>Rhodnius pallescens</i>	Adult	Colombia	Cesar	Valledupar	50,984	4.7074371	Tcl
DNA 137	<i>Rhodnius pallescens</i>	Adult	Colombia	Cesar	Valledupar	-	-	-
DNA 138	<i>Rhodnius pallescens</i>	Adult	Colombia	Cesar	Valledupar	-	-	-
DNA 139	<i>Rhodnius pallescens</i>	Adult	Colombia	Cesar	Valledupar	74,601	4.8727455	Tcl
DNA 140d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Puerto Rondón	26,070	4.4161442	Tcl
DNA 141d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Puerto Rondón	787	2.8960731	NA
DNA 144	<i>Rhodnius pallescens</i>	Adult	Colombia	Antioquia	Necocli	27,816	4.4442991	Tcl
DNA 145	<i>Rhodnius pallescens</i>	Adult	Colombia	Antioquia	Necocli	787	2.8960527	NA
DNA 146	<i>Rhodnius pallescens</i>	Adult	Colombia	Antioquia	Necocli	9,719,022	6.9876226	Tcl
DNA 147	<i>Rhodnius pallescens</i>	Adult	Colombia	Antioquia	Necocli	1,089,328	6.0371585	Tcl
DNA 147d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Tamara	2,332,787	6.3678750	Tcl
DNA 152d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Tamara	5,442,715	6.7358156	Tcl

DNA 154d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Tamara	39,216,532	7.5934692	Tcl
DNA 161d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Pore	362,335	5.5591104	Tcl
DNA 162d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Pore	3,907,144	6.5918594	Tcl
DNA 167d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Pore	22,351,330	7.3493034	Tcl
DNA 169d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Pore	36,838,908	7.5663067	Tcl
DNA 185	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	16,066	4.2058951	-
DNA 186	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	16,066	4.2058951	NA
DNA 187	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	627	2.7970192	NA
DNA 188	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	336	2.5260656	NA
DNA 201d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	10,291,462	7.0124771	Tcl
DNA 202d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	162,278	5.2102590	Tcl
DNA 203d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	39,889	4.6008550	Tcl
DNA 204d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	149,983,808	8.1760444	Tcl
DNA 207d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	18,781,748	7.2737360	NA
DNA 208d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	73,967	4.8690389	Tcl
DNA 209d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	25,790,952	7.4114674	Tcl
DNA 212d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	159,226,192	8.2020145	NA

DNA 213d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	8,173,628	6.9124148	Tcl
DNA 214d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	5,727,317	6.7579512	Tcll
DNA 215d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Meta	Restrepo	10,112,290	7.0048495	Tcl
DNA 230	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	68	1.8356851	NA
DNA 383	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	585	2.7672935	NA
DNA 384	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	472	2.6738620	NA
DNA 385	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	-	-	-
DNA 386	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	260	2.4145308	NA
DNA 387	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	2,759	3.4407426	NA
DNA 398	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	2,429	3.3853937	NA
DNA 399	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	266	2.4242862	NA
DNA 400	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	261	2.4166632	NA
DNA 401	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	111	2.0463024	NA
DNA 402	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	-	-	-
DNA 425	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	San Fernando	138	2.1390807	NA
DNA 426	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	San Fernando	-	-	-
DNA 427	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	San Fernando	34	1.5269295	NA

DNA 428	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	San Fernando	119	2.0749502	NA
DNA105d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Tame	1,095	3.0393868	NA
DNA112d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Saravena	169	2.2269245	NA
DNA115d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Saravena	526,503	5.7214005	Tcl
DNA117d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Arauca	529	2.7234248	Tcl
DNA118d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Arauca	12,895	4.1104207	Tcl
DNA12d	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	32	1.4984311	-
DNA14d	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	-	-	-
DNA15d	<i>Rhodnius pallescens</i>	Adult	Colombia	Bolivar	Mompox	21	1.3173026	NA
DNA19d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Sierra Nevada de Santa Marta	3,640	3.5610633	-
DNA1d	<i>Eratyrus mucronatus</i>	Adult	Colombia	Norte de santander	Los patios (Santa clara)	302	2.4801783	Tcl
DNA21d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Sierra Nevada de Santa Marta	1,768	3.2474050	-
DNA251d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Casanare	Paz de Ariporo	1,409,156	6.1489590	Tcl
DNA253d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Casanare	Paz de Ariporo	7,949,679	6.9003496	Tcl
DNA255d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Pore	14	1.1604392	NA
DNA257d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Pore	-	-	-
DNA261d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Pore	66	1.8200522	NA
DNA263d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Pore	25	1.4006630	NA
DNA285d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	1,016	3.0066914	NA

DNA299d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	35	1.5378319	NA
DNA2d	<i>Eratyrus mucronatus</i>	Adult	Colombia	Norte de santander	Los patios (Santa clara)	628	2.7978026	NA
DNA301d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	4,402	3.6436879	NA
DNA305d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	-	-	-
DNA307d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	-	-	-
DNA309d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Mani	-	-	-
DNA315d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Casanare	Paz de Ariporo	-	-	-
DNA319d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Fortul	52,900,404	7.7234590	Tcl
DNA323d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Fortul	12,528	4.0978742	Tcl
DNA325d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Fortul	18,831	4.2748626	Tcl
DNA329d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Puerto Rondón	-	-	-
DNA32d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Sierra Nevada de Santa Marta	153	2.1835157	NA
DNA333d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Arauca	Arauca	-	-	-
DNA341d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Arauca	Fortul	-	-	-
DNA349d	<i>Triatoma maculata</i>	Adult	Colombia	Guajira		482	2.6826938	NA
DNA34d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Sierra Nevada de Santa Marta	-	-	-
DNA371d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Santander	Playon	-	-	-
DNA377d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	2,391	3.3786480	Tcl

DNA379d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	-	-	-
DNA381d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	-	-	-
DNA383d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	-	-	-
DNA385d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	-	-	-
DNA387d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	4,681	3.6703173	Tcl
DNA38d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Von	-	-	-
DNA391d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	-	-	-
DNA395d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Tamara	375	2.5743717	NA
DNA397d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Monterrey	-	-	-
DNA399d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Monterrey	1,040	3.0168846	NA
DNA3d	<i>Eratyrus mucronatus</i>	Adult	Colombia	Norte de santander	Los patios (Santa clara)	91,116	4.9595957	Tcl
DNA403d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Monterrey	-	-	-
DNA405d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Monterrey	661,689	5.8206537	NA
DNA409d	<i>Triatoma maculata</i>	Adult	Colombia	Casanare	Paz de Ariporo	51,683	4.7133506	Tcl
DNA413d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Monterrey	-	-	-
DNA415d	<i>Psammolestes arthuri</i>	Adult	Colombia	Casanare	Monterrey	4,927	3.6925973	NA

DNA42	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	2,276	3.3570795	NA
DNA45d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Von	715	2.8541056	NA
DNA462d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Boyacá	Susacón	3,434	3.5358364	NA
DNA464d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Boyacá	Susacón	-	-	-
DNA466d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Boyacá	Soata	2,628,739	6.4197474	Tcl
DNA468d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Boyacá	Soata	9,636,328	6.9839116	Tcl
DNA470d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Boyacá	San Pablo de Borbur	206,605	5.3151416	Tcl
DNA476d	<i>Triatoma venosa</i>	Adult	Colombia	Casanare	Garoa	-	-	-
DNA478d	<i>Triatoma venosa</i>	Adult	Colombia	Casanare	Garoa	1,667	3.2218084	NA
DNA47d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Von	410	2.6123279	NA
DNA480d	<i>Rhodnius prolixus</i>	Adult	Colombia	Boyacá	Cubará	1,333	3.1248256	NA
DNA484d	<i>Rhodnius prolixus</i>	Adult	Colombia	Boyacá	Cubará	808	2.9072037	NA
DNA488d	<i>Triatoma venosa</i>	Adult	Colombia	Casanare	Garoa	-	-	-
DNA48d	<i>Rhodnius prolixus</i>	Adult	Colombia	Magdalena	Von	682	2.8340398	NA
DNA490d	<i>Triatoma venosa</i>	Adult	Colombia	Casanare	Garoa	-	-	-
DNA492d	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Pachavita	6,708	3.8266168	NA
DNA4d	<i>Eratyrus mucronatus</i>	Adult	Colombia	Norte de santander	San cayetano (La playa)	93,915	4.9727336	Tcl
DNA64	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	4,902	3.6903502	Tcl
DNA65d	<i>Rhodnius prolixus</i>	Adult	Colombia	Arauca	Tame	-	-	-
DNA67	<i>Rhodnius colombiensis</i>	Adult	Colombia	Tolima	Coyaima	302	2.4805168	NA
DNA71	<i>Rhodnius prolixus</i>	Adult	Colombia	Antioquia	Necocli	329	2.5171222	NA

DNA72	<i>Rhodnius prolixus</i>	Adult	Colombia	Antioquia	Necocli	200	2.3018741	NA
DNA80d	<i>Panstrongylus geniculatus</i>	Adult	Colombia	Santander	Mogotes	28,438,366	7.4539046	Tcl
DNA94d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Yopal	108,849	5.0368248	Tcl
DNA95d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	Yopal	2,242,750	6.3507808	Tcl
DNA96d	<i>Rhodnius prolixus</i>	Adult	Colombia	Casanare	San Luis de Palenque	62,999	4.7993333	Tcl
Tdis1	<i>Triatoma dispar</i>	Adult	Colombia	Chocó	San José del Palmar	7,609,587	6.8813611	NA
Tdis2	<i>Triatoma dispar</i>	Adult	Colombia	Chocó	San José del Palmar	55,199	4.7419312	Tcl
Tv1	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Zetaquira	147,299	5.1682012	NA
Tv10	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Garagoa	1,676	3.2242100	NA
Tv11	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Guateque	287	2.4580768	NA
Tv12	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Guateque	513	2.7104995	Tcl
Tv13	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Zetaquira	1,031	3.0132632	NA
Tv14	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Miraflores	2,227	3.3476923	NA
Tv15	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Chinavita	417	2.6204101	NA
Tv16	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Chinavita	465	2.6675208	NA
Tv17	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Garagoa	115	2.0591517	NA
Tv18	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Garagoa	124	2.0924832	NA
Tv19	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Garagoa	1,305	3.1155790	NA
Tv2	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Garagoa	88,358	4.9462467	Tcl
Tv20	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Miraflores	1,052	3.0219047	NA
Tv21	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Zetaquira	417	2.6196652	NA
Tv22	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Chinavita	23	1.3710638	NA
Tv3	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Zetaquira	1,385	3.1415686	NA
Tv4	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Miraflores	7,117	3.8523257	NA
Tv5	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Miraflores	1,930	3.2855716	NA
Tv6	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Guateque	4,750,815	6.6767681	Tcl

Tv7	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Zetaquira	2,204	3.3431311	Tcl
Tv8	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	La Capilla	393	2.5944049	NA
Tv9	<i>Triatoma venosa</i>	Adult	Colombia	Boyacá	Somondoco	739	2.8687955	NA