

Table 1: General statistics of the isolate datasets and assemblies for long reads (LR), short reads (SR) and hybrid assembly (HY). #L, #P – number of long reads; #SR – number of short reads; #SR – number of contigs in long-reads-only assembly; LRL – length of long-reads-only assembly [nt]; HYL – number of contigs in hybrid assembly; SRL – length of hybrid assembly; SRN – number of contigs in short-reads-only assembly; SRL – length of short-reads-only assembly; LRCov – mean coverage of long reads against hybrid assembly; SRCov – mean coverage of short reads against hybrid assembly; LRLANI – mean nucleotide identity of long-reads-only assembly; HYLANI – mean nucleotide identity of hybrid assembly; SRANI – mean nucleotide identity of short-reads-only assembly; LRGenes – number of found AMR genes in long-reads-only assembly; HYGenes – number of found AMR genes in hybrid assembly; SRGenes – number of found AMR genes in short-reads-only assembly.

Isolate	Long reads			Short reads			Assembly statistics										Coverage			ANI			AMR genes						
	#LR	MedLR	Total bases LR	#SR	Total bases SR	LRN	LRL	HYN	HYL	SRN	SRL	LRCov	SRcov	LRANI	HYANI	SRANI	LRGenes	HYGenes	SRGenes	LRL	SRcov	LRANI	HYANI	SRANI	LRGenes	HYGenes	SRGenes		
iso02501	46640	6906	6.211781e+08	4539506	3.3592334e+08	2	4152257	2	4153676	310	4064154	146.76	78.44	99.9352	99.9719	99.9801	11	11	11										
iso02502	292723	489	9.682356e+08	6220958	4.603509e+08	2	4156951	2	4157226	270	4082686	227.74	106.03	99.9379	99.9714	99.9821	11	11	11										
iso02503	85658	2078	6.708994e+08	6882348	4.907938e+08	2	4156280	2	4157109	292	4082841	160.25	143.07	99.9350	99.9651	99.9772	11	11	11										
iso02506	99643	1979	7.355847e+08	2286616	1.692096e+08	2	4139789	2	4141263	328	4073386	174.45	39.93	99.9389	99.9716	99.9777	6	7	7										
iso02507	80319	3335	8.643858e+08	12689044	9.398933e+08	2	4144502	2	4145239	328	4080441	204.10	203.02	99.9413	99.9713	99.9788	11	11	11										
iso02508	161724	6106	1.841609e+09	4833446	3.576750e+08	1	4148483	1	4150096	289	4080339	435.60	83.84	99.9487	99.9712	99.9780	11	11	11										
iso02509	87843	3051	9.349537e+08	3341418	2.472649e+08	2	4184976	2	4185953	315	4083618	218.74	57.71	99.9465	99.9756	99.9812	11	11	11										
iso02510	58783	2848	5.718420e+08	6853738	5.041766e+08	2	4171242	2	4172047	302	4083708	134.17	118.41	99.9349	99.9684	99.9815	11	11	11										
iso02511	87054	1744	6.072800e+08	7482692	5.545592e+08	2	4156988	2	4157774	283	4082532	142.65	128.81	99.9305	99.9660	99.9760	10	11	11										
iso02512	72274	3468	7.235894e+08	5008082	3.705981e+08	2	4138759	2	4139488	292	4082859	172.40	87.35	99.9401	99.9756	99.9788	10	11	11										
iso02513	135451	7448	1.974267e+09	6283480	4.651258e+08	2	4188029	2	4189177	265	4087818	465.35	108.34	99.9327	99.9684	99.9826	11	11	11										
iso02514	33611	13767	6.172206e+08	5844186	4.324698e+08	2	4138775	2	4140117	266	4081772	147.18	101.82	99.9387	99.9722	99.9777	10	11	11										
iso02515	63245	11722	1.105906e+09	6357126	4.704273e+08	2	4171231	2	4171927	280	4082904	261.62	108.47	99.9377	99.9703	99.9791	11	11	11										
iso02517	94491	5997	1.292397e+09	5681770	4.204510e+08	2	4171166	2	4171968	274	4082949	305.59	98.14	99.9424	99.9738	99.9758	10	11	11										
iso02518	51468	2842	4.937027e+08	3440104	2.545677e+08	2	4119362	2	4120156	235	4059088	118.21	59.28	99.9288	99.9709	99.9781	11	11	11										
iso02519	77765	2631	6.104780e+08	5793368	4.247132e+08	2	4082145	2	4082879	273	4025879	147.39	100.89	99.9410	99.9717	99.9809	7	7	7										
iso02520	130666	1337	1.030614e+09	6685926	4.947595e+08	1	4156988	1	4157414	261	4081419	244.79	115.90	99.9379	99.9737	99.9756	11	11	11										
iso02522	97019	3469	9.935001e+08	6194856	4.584193e+08	2	4107587	2	4108283	279	4035958	238.91	108.55	99.9477	99.9715	99.9821	10	11	11										
iso02523	25483	17681	5.341279e+08	7668808	5.674918e+08	2	4093430	2	4094252	279	4026238	128.86	131.45	99.9387	99.9703	99.9842	10	11	11										
iso02524	42443	11416	6.965869e+08	6323884	4.916746e+08	2	4093420	2	4094385	271	4034365	167.92	115.06	99.9438	99.9748	99.9832	10	11	11										
iso02525	80222	6477	1.011856e+09	8368452	6.192654e+08	2	4102147	2	4102833	289	4036140	242.94	146.05	99.9463	99.9757	99.9817	11	11	11										
iso02527	50034	8599	7.923004e+08	8341548	6.172746e+08	2	4093437	2	4094150	306	4036660	162.03	146.89	99.9424	99.9765	99.9821	10	11	11										
iso02529	49364	11216	7.920022e+08	8286258	3.911831e+08	2	4102076	2	4102875	287	4035247	190.48	93.29	99.9426	99.9742	99.9823	10	11	11										
iso02532	137875	3440	1.163668e+09	3920884	2.901454e+08	2	4102946	2	4103611	345	4038605	279.69	68.92	99.9439	99.9766	99.9767	10	11	11										
iso02533	102735	3693	8.865780e+08	7412268	4.85078e+08	2	4098101	2	4098831	272	4035286	213.29	118.31	99.9439	99.9772	99.9773	10	11	11										
iso02534	113909	2330	9.399045e+08	6883336	4.945669e+08	2	4098043	2	4099091	299	4038527	228.29	117.39	99.9427	99.9722	99.9780	11	11	11										
iso02535	104816	1501	7.632777e+08	4419916	3.566738e+08	2	4098110	2	4098833	286	4036027	183.36	82.46	99.9433	99.9779	99.9800	10	11	11										
iso02536	109444	1517	7.493870e+08	5986052	4.429678e+08	2	4092536	2	4093252	286	4036273	180.50	100.38	99.9410	99.9752	99.9776	10	11	11										
iso02537	87178	4125	9.234052e+08	4493460	3.325160e+08	2	4079710	2	4079774	336	4031298	222.51	79.61	99.9453	99.9757	99.9789	11	11	11										
iso02538	150937	5950	1.691496e+09	3265476	2.416452e+08	2	3891205	2	3891872	433	3821731	427.64	60.77	97.9727	97.9891	98.0883	4	4	4										
iso02539	179287	1853	1.460921e+09	6041386	4.470626e+08	3	4087067	3	4086829	526	4026832	351.95	96.89	98.0841	98.1003	98.1544	4	4	4										
iso02541	67996	8368	9.311779e+08	6514738	4.820906e+08	2	4108386	2	4109318	303	4032819	222.83	106.41	99.9465	99.9815	99.9777	10	11	11										
iso02542	62043	6487	8.015455e+08	4749958	3.514936e+08	2	4098008	2	4098705	292	4036473	192.11	80.52	99.9419	99.9727	99.9778	10	11	11										
iso02544	111848	3571	1.003958e+09	6883562	5.093836e+08	2	4098091	2	4098726	269	4038232	240.96	109.36	99.9399	99.9722	99.9794	11	11	11										
iso02545	67715	10546	1.064973e+09	5428360	4.016986e+08	2	4098109	2	4098814	262	4035277	255.97	93.47	99.9454	99.9775	99.9796	11	11	11										
iso02546	67927	5939	7.623128e+08	6179906	4.573130e+08	2	4112358	2	4113063	276	4036254	182.17	98.04	99.9426	99.9780	99.9776	11	11	11										
iso02547	38284	10163	5.833681e+08	5765828	4.266713e+08	2	4098078	2	4098864	268	4036890	139.95	92.62	99.9429	99.9798	99.9777	10	11	11										
iso02549	80199	6552	1.006297e+09	5197720	3.846313e+08	2	4098140	2	4099180	294	4036508	241.92	89.13	99.9422	99.9749	99.9830	10	11	11										
iso02550	165740	3754	1.271312e+09	6313000	4.671620e+08	2	4098910	2	4098767	269	4034455	305.32	101.77	99.9422	99.9747	99.9781	11	11	11										
iso02551	64018	6102	7.639976e+08	6972138	5.130019e+08	2	4086912	2	4087743	264	4025182	184.18	111.36	99.9410	99.9733	99.9775	6	7	7										
iso02552	100663	5315	1.081667e+09	7259922	5.341712e+08	2	4099335	2	4100096	275	4035794	255.81	119.62	99.9340	99.9702	99.9792	11	11	11										
iso02553	122408	4831	1.280058e+09	5991662	4.408031e+08	2	4098091	2	4098838	307	4037466	307.87	104.57	99.9410	99.9731	99.9797	11	11	11										
iso02554	111962	6511	1.389001e+09	7080372	5.209121e+08	2	4099384	2	4100142	280	4036144	333.83	111.89	99.9408	99.9739	99.9787	11	11	11										
iso02555	169995	3350	1.238627e+09	6261926	4.607248e+08	2	4099388	2	4099934	275	4034471	297.30	106.08	99.9405	99.9753	99.9765	10	11	11										
iso02556	65092	9115	9.114845e+08	1359086	9.99437e+08	2	4092573	2	4093466	266	4036611	219.28	233.25	99.9401	99.9735	99.9781	11	11	11										
iso02557	98954	4818	1.027227e+09	8480046	6.275234e+08	2	4072752	2	4073467	286	4020914	248.17	145.78	99.9430	99.														

iso02568	46848	7276	5.088007e+08	7633332	5.648666e+08	2	4075660	2	4075284	289	4026185	122.81	127.40	89.9490	89.9769	89.9743	6	7	7
iso02569	47794	8612	6.850451e+08	6216560	4.600254e+08	2	4093040	2	4093783	268	4035180	165.18	104.68	89.9409	89.9756	89.9774	10	11	11
iso02570	27679	7082	3.736808e+08	8089588	5.966295e+08	2	4098081	2	4098946	275	4035554	90.05	135.65	89.9367	89.9734	89.9791	11	11	11
iso02571	50609	3364	3.626072e+08	6569494	4.861426e+08	2	4112357	2	4113282	268	4034865	86.98	111.26	89.9364	89.9747	89.9792	10	11	11
iso02572	192695	2538	9.550747e+08	4949896	3.662923e+08	3	4112121	3	4112671	272	4035212	228.30	83.70	89.9486	89.9756	89.9738	10	11	11
iso02573	73716	3592	5.856306e+08	5812592	4.301318e+08	2	4097707	2	4100314	265	4034690	140.36	98.67	89.9385	89.9677	89.9743	11	11	11
iso02575	67613	2862	4.891254e+08	9157646	6.776658e+08	5	4087902	5	4088837	262	4025368	117.68	145.62	89.9483	89.9771	89.9774	7	7	7
iso02577	51976	8422	7.457054e+08	8292586	6.136514e+08	2	4112361	2	4113036	272	4035793	178.87	129.72	89.9478	89.9806	89.9762	10	11	11
iso02579	71904	2280	5.090767e+08	8747308	6.473008e+08	2	4098886	2	4100825	282	4035920	122.21	138.38	89.9445	89.9747	89.9760	11	11	11
iso02580	52840	5042	5.298900e+08	7106932	5.259130e+08	5	4099880	5	4100757	287	4036185	127.18	115.61	89.9411	89.9709	89.9752	10	11	11
iso02581	90012	3183	6.752872e+08	8660678	5.076902e+08	2	4091862	2	4092845	290	4035849	162.33	109.12	89.9485	89.9792	89.9754	10	11	11
iso02582	51791	7174	6.283331e+08	8490498	6.282969e+08	2	4098097	2	4098743	267	4034755	151.11	131.50	89.9417	89.9744	89.9834	10	11	11
iso02583	200877	2544	1.446992e+09	8691446	6.431670e+08	2	4020144	2	4020216	406	3931627	354.73	145.65	89.9168	89.9259	89.9757	4	4	4
iso02584	96786	3178	7.462824e+08	6638166	4.912243e+08	2	4098087	2	4098738	269	4035780	178.95	109.28	89.9458	89.9771	89.9778	10	11	11
iso02585	37870	7471	4.802244e+08	9158080	6.776979e+08	2	4086812	2	4087480	257	4034437	115.44	149.36	89.9467	89.9731	89.9791	11	11	11
iso02586	92789	2599	6.235416e+08	8667276	6.413784e+08	2	4098080	2	4098743	255	4035135	149.63	129.02	89.9437	89.9733	89.9829	10	11	11
iso02587	141114	2436	1.234193e+09	7598210	5.627675e+08	2	4095379	2	4095978	259	4034704	298.02	121.70	89.9438	89.9723	89.9829	11	11	11
iso02588	105526	4583	1.173648e+09	8135922	6.020582e+08	2	4098085	2	4098725	288	4036022	283.23	117.95	89.9528	89.9749	89.9789	10	11	11
iso02589	188037	1121	1.193843e+09	7252936	5.367173e+08	2	4150021	2	4150623	251	4035632	284.32	112.54	89.9443	89.9738	89.9770	10	11	11
iso02590	198456	3685	1.753775e+09	8056490	5.961803e+08	2	4098113	2	4098731	281	4035714	423.28	118.88	89.9486	89.9750	89.9810	10	11	11
iso02591	102194	10725	1.642842e+09	6408482	4.742277e+08	2	4092384	2	4093385	266	4035874	397.17	109.23	89.9456	89.9775	89.9805	11	11	11
iso02592	276625	943	1.860757e+09	16173092	1.196809e+09	2	4094114	2	4100025	254	4034644	448.88	255.57	89.9428	89.9678	89.9776	10	11	11
iso02593	79713	13590	1.444008e+09	5226350	3.867499e+08	2	4098088	2	4098761	293	4035393	348.74	82.16	89.9447	89.9774	89.9818	10	11	11
iso02594	56544	10753	9.164662e+08	8986550	6.650047e+08	2	4098150	2	4098842	272	4035725	221.22	133.59	89.9458	89.9766	89.9796	10	11	11
iso02595	126549	7716	1.674081e+09	8042816	5.951684e+08	2	4112138	2	4112770	269	4035171	402.56	129.03	89.9519	89.9748	89.9775	10	11	11
iso02597	53991	7451	7.398586e+08	9100442	6.734327e+08	3	4129969	3	4130637	249	4034126	177.11	138.59	89.9476	89.9790	89.9810	11	11	11