

Table 3

	GTDB-Tk taxonomy	Size	Contigs	N50	GC	completeness	contamination	MIMAG
magI1	Actinobacteriota;Thermoleophilia;20CM-4-69-9;20CM-4-69-9	3377677	169	24250	69.9%	81	1.293	Medium
magI2	Acidobacteriota;Thermoanaerobaculia	5321068	131	66773	66.0%	95.96	2.849	Medium
magI3	Nitrospirota;Nitrospiria;Nitrospirales;Nitrospiraceae;Nitrospira_C	3293157	304	11734	58.7%	87.87	7.929	Medium
magI4	Eisenbacteria;RBG-16-71-46	2561625	211	13768	67.9%	84.84	1.098	Medium
magI5	Gemmatimonadota;Gemmatimonadetes;Gemmatimonadales;GWC2-71-9	3461988	62	148829	67.7%	94.18	2.197	Medium
magI6	Acidobacteriota;Acidobacteriae;Acidobacteriales;Koribacteraceae	4052648	57	120172	56.0%	91.05	0.854	Medium
magI7	Acidobacteriota;Thermoanaerobaculia	7820903	527	18142	67.6%	80.65	3.703	Medium
magI8	Nitrospirota;Nitrospiria;Nitrospirales;Nitrospiraceae;GCA-2737345	4109394	341	12463	56.4%	84.66	4.545	Medium
magI9	Myxococcota;Polyangia;Kofleriales;Kofleriaceae	11007611	231	77779	69.0%	81.93	1.474	Medium
magI10	Dormibacterota;Dormibacteria	3788213	181	27454	71.7%	88	1.851	Medium
magI11	Nitrospirota;Nitrospiria;Nitrospirales;Nitrospiraceae;Nitrospira_C	4541993	243	24855	55.3%	96.36	3.989	Medium
magI12	Gemmatimonadetes;Gemmatimonadales;GWC2-71-9;40CM-2-70-7	2649947	193	16824	67.7%	82	1.098	Medium
magI13	Dormibacterota;Dormibacteria	4029220	85	69215	70.7%	98.61	0.925	Medium
magI14	Nitrospirota;Nitrospiria;Nitrospirales;Nitrospiraceae;Nitrospira_C	3065303	170	26094	56.7%	82.01	6.363	Medium

Table 3 continued

	GTDB-Tk taxonomy	Size	Contigs	N50	GC	completeness	contamination	MIMAG
magP1	Verrucomicrobiota; Verrucomicrobiae; Pedosphaerales; Pedosphaeraceae	8909748	261	55946	57.6%	98.64	8.108	Medium
magP2	Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae	2721540	119	37362	62.5%	90.75	3.921	Medium
magP3	Acidobacteriota; Acidobacteriae; Acidobacteriales; Koribacteraceae	4391229	117	63672	55.8%	96.58	6.41	Medium
magP4	Acidobacteriota; Acidobacteriae; Acidobacteriales	5394372	259	26773	54.9%	92.02	1.994	Medium
magP5	Actinobacteriota; Acidimicrobia; IMCC26256	4337493	355	14277	69.3%	83.52	0.925	Medium
magP6	Gammaproteobacteria; Enterobacterales; Enterobacteriaceae; Lelliottia	5354450	93	88703	55.2%	99.06	0.715	Medium
magP7	Actinobacteriota; Thermoleophilia; Solirubrobacterales; 70-9; 70-9	2620611	92	38941	67.4%	95.13	0.948	Medium
magP8	Gammaproteobacteria; Betaproteobacteriales; UKL13-2	3375344	364	14636	65.7%	84.82	4.31	Medium
magP9	UBA10199; UBA10199; UBA10199	3108333	222	17369	57.6%	83.87	1.29	Medium
magP10	Gammaproteobacteria; Betaproteobacteriales; Burkholderiaceae; Janthinobacterium	4309612	337	15502	66.0%	87.65	2.613	Medium
magP11	Chloroflexota; Ellin6529; CSP1-4; CSP1-4; UBA5189	2799987	10	520935	70.5%	95.83	1.157	Medium
magP12	Acidobacteriota; Thermoanaerobaculia	5401737	147	56396	63.2%	97.53	5.47	Medium
magP13	Acidobacteriota; Thermoanaerobaculia	5296372	38	193920	66.0%	99.14	3.703	Medium
magP14	Alphaproteobacteria; Sphingomonadales; Sphingomonadaceae; Sphingomonas_A	2439972	109	32058	62.8%	96.5	2.507	Medium
magP15	Acidobacteriota; Acidobacteriae; Acidobacteriales; Koribacteraceae	3923518	235	22362	57.5%	92.46	3.019	Medium