

Supplementary Table 3. Pairwise ANI values within the dataset.

Strain	809	BR-AD22	102	NCTC 12077	FRC58	210932	210931	FRC11	5146	131002	LSPQ-04227	LSPQ-04221	131001	04-3911	03-8664	04-7514	KZN-2016-48390	BR-AD 2649	2590	4940	211	FH2016-1	NCTC7910	NCTC8666	NCTC7908	NCTC8639	PO100/5	KL1196	W25	<i>C. belfanti</i>	FRC0	<i>C. diphtheric</i>	<i>C. pseudotuberculosis</i>	DSM 20685
809	100.00	98.68	98.56	96.37	98.65	98.50	98.73	96.36	98.67	95.77	95.83	95.83	98.49	98.61	96.31	95.84	98.58	98.74	98.63	98.89	98.57	98.57	98.73	96.38	98.70	98.71	91.12	91.07	91.12	79.18	79.17	85.21		
BR-AD22	98.74	100.00	98.88	96.25	98.58	98.58	98.65	96.34	98.70	95.75	95.82	95.80	98.58	98.93	96.29	95.80	98.91	98.50	98.65	98.71	98.88	98.89	98.67	96.26	98.70	98.70	91.10	91.10	91.05	79.35	79.31	85.08		
102	98.55	98.87	100.00	96.34	98.91	98.73	98.60	96.35	98.93	95.75	95.75	95.74	98.72	99.93	96.34	96.01	99.84	98.31	98.54	98.61	100.00	99.99	98.66	96.23	98.63	98.67	91.11	91.13	91.05	79.41	79.24	84.97		
NCTC 12077	96.38	96.25	96.31	100.00	96.34	96.37	96.31	99.97	96.38	97.82	98.03	98.04	96.40	96.28	98.46	98.00	96.34	96.16	96.33	96.38	96.33	96.33	96.36	96.39	99.81	96.35	96.39	91.13	91.26	91.14	79.43	79.39	84.99	
FRC58	98.62	98.62	98.99	96.37	100.00	98.57	99.31	96.37	99.38	95.76	95.79	95.79	98.59	99.08	96.32	95.84	98.98	98.33	98.50	98.56	98.98	98.99	98.71	96.23	98.72	98.75	91.14	91.04	91.06	79.35	79.16	85.05		
210932	98.45	98.56	98.73	96.36	98.61	100.00	98.49	96.35	98.59	95.86	95.88	95.85	99.99	98.72	96.35	95.90	98.69	98.31	98.53	98.60	98.71	98.72	98.61	96.33	98.65	98.64	91.15	91.07	91.09	79.22	78.95	85.03		
210931	98.74	98.65	98.63	96.34	99.33	98.54	100.00	96.34	99.51	95.83	95.81	95.82	98.50	98.69	96.32	95.80	98.66	98.41	98.54	98.65	98.60	98.63	98.74	96.36	98.76	98.73	91.05	90.97	91.00	79.40	79.06	85.08		
FRC11	96.38	96.29	96.31	99.96	96.34	96.37	96.34	100.00	96.40	97.85	98.05	98.05	96.36	96.38	98.52	98.06	96.35	96.23	96.31	96.36	96.30	96.32	96.42	99.97	96.42	96.43	91.21	91.21	91.26	79.26	79.31	85.10		
5146	98.63	98.69	98.93	96.36	99.37	98.59	99.51	96.45	100.00	95.86	95.83	95.84	98.59	98.97	96.38	95.89	98.95	98.33	98.56	98.55	98.94	98.96	98.71	96.39	98.64	98.71	91.20	91.17	91.07	79.26	78.88	84.98		
131002	95.73	95.76	95.78	97.84	95.75	95.86	95.80	97.83	95.90	100.00	97.69	97.70	95.88	95.79	98.13	97.67	95.78	95.68	95.79	95.73	95.77	95.78	95.80	97.82	95.81	95.84	91.26	91.21	91.28	79.23	79.24	85.00		
LSPQ-04227	95.80	95.83	95.77	98.02	95.82	95.91	95.82	98.10	95.85	97.71	100.00	99.96	95.90	95.80	97.92	99.82	95.78	95.77	95.84	95.84	95.78	95.74	95.90	98.03	95.87	95.90	91.39	91.26	91.24	78.95	79.09	85.11		
LSPQ-04228	95.80	95.74	95.77	98.04	95.81	95.85	95.82	98.06	95.85	97.69	99.96	100.00	95.90	95.80	97.91	99.85	95.80	95.72	95.77	95.84	95.76	95.76	95.88	98.05	95.88	95.87	91.28	91.24	91.25	79.05	79.22	85.04		
131001	98.44	98.56	98.74	96.34	98.60	99.99	98.49	96.39	98.59	95.87	95.90	95.85	100.00	98.72	96.33	95.87	98.70	98.33	98.53	98.59	98.77	98.76	98.58	96.30	98.62	98.68	91.21	91.13	91.09	79.06	79.07	85.02		
04-3911	98.52	98.90	99.87	96.23	98.99	98.66	98.66	96.34	98.92	95.79	95.77	95.78	98.71	100.00	96.34	95.94	99.91	98.37	98.49	98.58	99.87	99.89	98.65	96.23	98.62	98.65	91.13	91.02	91.03	79.46	79.17	85.19		
03-8664	96.00	95.99	96.08	98.22	96.06	96.16	96.03	98.22	96.21	97.85	97.71	97.78	96.14	96.06	100.00	97.66	96.07	95.84	96.02	96.05	96.08	96.14	96.09	98.20	96.09	96.13	91.24	91.10	91.18	79.47	79.01	85.17		
04-7514	95.83	95.77	95.98	97.93	95.73	95.83	95.78	98.06	95.89	97.70	99.83	99.83	95.80	95.95	97.94	100.00	95.93	95.66	95.72	95.80	95.97	95.96	95.84	97.94	95.86	95.88	91.38	91.30	91.30	79.34	79.01	85.12		
KZN-2016-48390	98.54	98.87	99.84	96.33	98.94	98.70	98.60	96.33	98.92	95.77	95.79	95.79	98.69	99.95	96.32	95.95	100.00	98.29	98.56	98.62	99.83	99.84	98.67	96.26	98.66	98.69	91.03	91.06	91.09	79.51	79.21	84.98		
BR-AD 2649	98.80	98.46	98.32	96.26	98.31	98.32	98.45	96.24	98.44	95.59	95.74	95.74	98.32	98.37	96.18	95.68	98.28	100.00	98.46	98.68	98.36	98.34	98.53	96.12	98.51	98.52	91.13	91.14	91.11	79.45	79.19	85.00		
2590	98.61	98.62	98.52	96.27	98.49	98.57	98.48	96.32	98.56	95.76	95.81	95.81	98.49	98.55	96.27	95.78	98.57	98.44	100.00	98.85	98.52	98.53	98.80	96.25	98.75	98.77	91.00	91.03	91.01	79.01	79.08	84.94		
4940	98.86	98.67	98.59	96.35	98.58	98.53	98.67	96.36	98.55	95.73	95.86	95.86	98.58	98.59	96.27	95.87	98.57	98.66	98.80	100.00	98.58	98.57	98.75	96.39	98.75	98.75	91.13	91.11	91.16	79.28	79.17	85.03		
211	98.55	98.88	100.00	96.34	98.91	98.75	98.62	96.34	98.93	95.79	95.76	95.75	98.72	99.92	96.34	96.01	99.84	98.29	98.54	98.61	100.00	99.99	98.66	96.23	98.63	98.65	91.11	91.13	91.06	79.41	79.24	85.02		
FH2016-1	98.54	98.87	99.98	96.36	98.88	98.75	98.61	96.32	98.96	95.79	95.77	95.79	98.72	99.92	96.33	96.00	99.83	98.29	98.55	98.63	99.98	100.00	98.69	96.20	98.62	98.65	91.07	91.07	91.06	79.38	79.24	85.04		
NCTC7910	98.68	98.63	98.60	96.37	98.73	98.60	98.72	96.38	98.70	95.83	95.87	95.87	98.65	98.70	96.33	95.91	98.64	98.52	98.78	98.77	98.59	98.62	100.00	96.36	99.99	99.99	91.16	91.07	91.09	79.24	79.25	85.01		
NCTC8666	96.35	96.23	96.24	99.85	96.23	96.31	96.33	99.97	96.38	97.83	98.05	98.04	96.28	96.27	98.48	97.96	96.22	96.14	96.29	96.36	96.21	96.24	96.38	100.00	96.36	96.39	91.16	91.16	91.22	79.35	79.36	85.02		
NCTC7908	98.67	98.64	98.59	96.38	98.72	98.60	98.71	96.41	98.69	95.81	95.88	95.90	98.64	98.68	96.35	95.91	98.69	98.53	98.78	98.74	98.59	98.60	99.98	96.37	100.00	99.99	91.23	91.09	91.04	79.21	79.12	85.02		
NCTC8639	98.69	98.66	98.64	96.34	98.69	98.67	98.70	96.44	98.68	95.81	95.85	95.87	98.63	98.69	96.33	95.88	98.69	98.51	98.77	98.76	98.64	98.65	99.99	96.39	99.98	100.00	91.12	91.05	91.11	79.23	79.23	85.08		
PO100/5	91.11	91.11	91.07	91.20	91.03	91.09	90.99	91.24	91.19	91.26	91.29	91.30	91.17	91.08	91.39	91.39	91.03	91.15	91.01	91.07	91.06	91.07	91.10	91.16	91.12	91.10	100.00	99.77	99.77	79.41	78.93	85.69		
KL1196	91.01	91.07	91.07	91.23	91.00	91.13	91.00	91.24	91.17	91.18	91.35	91.32	91.13	91.04	91.32	91.34	91.06	91.09	91.06	91.06	91.09	91.09	91.07	91.11	91.06	91.06	99.75	100.00	99.98	79.49	78.88	85.63		
W25	91.06	91.06	91.04	91.18	91.05	91.07	91.02	91.21	91.15	91.30	91.27	91.28	91.07	91.11	91.37	91.35	91.04	91.11	91.03	91.05	91.05	91.00	91.08	91.12	91.11	91.04	99.77	100.00	100.00	79.41	78.88	85.62		
<i>C. belfanti</i> FRC0043T	79.38	79.42	79.33	79.38	79.44	79.14	79.26	79.31	79.50	79.09	79.11	79.07	79.12	79.38	79.35	79.30	79.47	79.56	79.16	79.51	79.42	79.30	79.28	79.06	79.43	79.40	79.46	79.42	79.61	100.00	95.10	78.53		
<i>C. diphtheriae</i> DSM 44123T	79.26	79.33	79.53	79.24	79.55	79.38	79.05	79.29	79.37	79.31	79.05	79.21	79.40	79.17	78.83	79.06	79.45	79.70	79.04	79.57	79.48	79.46	79.18	79.20	79.42	79.37	79.16	79.09	79.17	95.22	100.00	78.57		
<i>C. pseudotuberculosis</i> DSM 20685	84.90	84.97	85.08	85.06	85.20	85.05	84.99	85.08	85.12	85.05	84.93	84.92	84.98	85.11	85.11	85.15	84.82	84.86	85.00	84.85	85.05	85.01	84.98	85.04	84.90	85.10	85.62	85.52	85.50	78.40	78.42	100.00		