

Supplementary Materials

Table S1. Host ranges of phage PA13076 and phage PC2184.

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
1	50336	Enteritidis	+	+++	I
2	994	Enteritidis	+	+++	I
3	T48	Enteritidis	++	++	I
4	T49	Enteritidis	++	++	I
5	T64	Enteritidis	+	+++	I
6	CVCC1	Pullorun	—	+++	I
7	S11-2	Pullorun	—	++	I
8	S11-3	Pullorun	—	+++	I
9	S11-4-1	Pullorun	+	—	I
10	S11-4-2	Pullorun	+	+++	I
11	S11-5	Pullorun	+	—	I
12	S12-2-1	Pullorun	+	—	I
13	S11-2-2	Pullorun	+	—	I
14	C1	Enteritidis	+	+++	II
15	C2	Enteritidis	+	+++	II
16	C5	Enteritidis	+	+++	II
17	C7	Enteritidis	+	++	II
18	C8	Enteritidis	—	++	II
19	C11	Enteritidis	+	+	II
20	C12	Enteritidis	+	+++	II
21	C14	Enteritidis	+	+++	II
22	C15	Enteritidis	+	+++	II
23	C16	Enteritidis	+	+++	II
24	C17	Enteritidis	+	+++	II
25	C18	Enteritidis	+	+++	II
26	C19	Enteritidis	±	+++	II
27	C20	Enteritidis	±	+++	II
28	C21	Enteritidis	±	+++	II
29	C22	Enteritidis	±	+++	II
30	C23	Enteritidis	±	+++	II
31	C24	Enteritidis	±	+++	II
32	C25	Enteritidis	±	++	II
33	C26	Enteritidis	—	+++	II
34	C27	Enteritidis	+	+++	II
35	C29	Enteritidis	+	+	II
36	C30	Enteritidis	+	+++	II
37	C31	Enteritidis	+	+++	II
38	C32	Enteritidis	+	+++	II
39	C36	Enteritidis	+	+++	II
40	C39	Enteritidis	+	+++	II
41	C40	Enteritidis	+	+++	II
42	C41	Enteritidis	+	+++	II

Table S1. Cont.

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
43	C43	Enteritidis	+	+++	II
44	C44	Enteritidis	+	+++	II
45	C46	Enteritidis	+	+++	II
46	C53	Enteritidis	+	+++	II
47	C56	Enteritidis	+	++	II
48	C57	Enteritidis	+	+++	II
49	C58	Enteritidis	—	+++	II
50	C59	Enteritidis	—	+++	II
51	C60	Enteritidis	—	+++	II
52	C61	Enteritidis	—	+++	II
53	C63	Enteritidis	+	+++	II
54	C65	Enteritidis	+	+++	II
55	C71	Enteritidis	+	++	II
56	C72	Enteritidis	+	+++	II
57	C76	Enteritidis	+	++	II
58	C79	Enteritidis	+	+++	II
59	C80	Enteritidis	+	+++	II
60	C83	Enteritidis	+	++	II
61	C88	Enteritidis	+	++	II
62	C89	Enteritidis	+	++	II
63	C94	Enteritidis	+	++	II
64	C96	Enteritidis	+	++	II
65	C99	Enteritidis	+	+	II
66	C102	Enteritidis	+	+++	II
67	C105	Enteritidis	+	++	II
68	C106	Enteritidis	+	++	II
69	C110	Enteritidis	+	++	II
70	C118	Enteritidis	+	++	II
71	C124	Enteritidis	+	++	II
72	C125	Enteritidis	+	++	II
73	C128	Enteritidis	+	++	II
74	C130	Enteritidis	+	+	II
75	C133	Enteritidis	—	++	II
76	C135	Enteritidis	+	+	II
77	C137	Enteritidis	—	+	II
78	C138	Enteritidis	+	++	II
79	C139	Enteritidis	+	++	II
80	C144	Enteritidis	+	++	II
81	C145	Enteritidis	+	+	II
82	C146	Enteritidis	+	+	II
83	C149	Enteritidis	+	++	II
84	C150	Enteritidis	+	+	II
85	C152	Enteritidis	+	+	II

Table S1. *Cont.*

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
86	C154	Enteritidis	+	+++	II
87	C155	Enteritidis	+	+	II
88	C156	Enteritidis	+	++	II
89	C158	Enteritidis	+	+++	II
90	C161	Enteritidis	+	++	II
91	C164	Enteritidis	+	++	II
92	C165	Enteritidis	+	++	II
93	C167	Enteritidis	+	++	II
94	2	Enteritidis	—	—	II
95	4	Enteritidis	—	—	II
96	8	Enteritidis	+	+	II
97	21	Enteritidis	+	+++	II
98	31	Enteritidis	+	+	II
99	32	Enteritidis	+	+	II
100	34	Enteritidis	+	+	II
101	36	Enteritidis	+	+	II
102	37	Enteritidis	+	+	II
103	42	Enteritidis	+	+++	II
104	43	Enteritidis	—	++	II
105	59	Enteritidis	+	+	II
106	71	Enteritidis	+	+	II
107	SM-1-KDE	Enteritidis	+	++	II
108	SM-3-KDE	Indiana	+	+	II
109	SM-4-KDE	Typhimurium	—	++	II
110	SM-5-KDE	Typhimurium	—	++	II
111	SM-6-KDE	Typhimurium	—	++	II
112	SM-7-KDE	Typhimurium	—	++	II
113	SM-8-KDE	Typhimurium	+	++	II
114	SM-10-KDE	Enteritidis	+	++	II
115	SM-12-KDE	Typhimurium	—	++	II
116	SM-14-KDE	Enteritidis	+	++	II
117	SM-16-KDE	Enteritidis	+	+++	II
118	SM-17-KDE	Enteritidis	+	+++	II
119	SM-22-KDE	Newport	+	+	II
120	SM-23-KDE	Enteritidis	+	++	II
121	SM-27-KDE	Sanftenberg	+	+	II
122	SM-28-KDE	Indiana	+	++	II
123	SM-29-KDE	Kottbus	+	++	II
124	SM-30-KDE	Indiana	+	++	II
125	SM-31-KDE	Choleraesuis	+	+	II
126	SM-32-KDE	Enteritidis	+	++	II
127	SM-34-KDE	Enteritidis	+	+++	II
128	SM-38-KDE	Enteritidis	+	+++	II
129	SM-39-KDE	Enteritidis	++	—	II

Table S1. *Cont.*

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
130	SM-41-KDE	Enteritidis	—	++	II
131	SM-46-KDE	Enteritidis	+	+++	II
132	SM-49-KDE	Enteritidis	+	—	II
133	SM-52-KDE	Enteritidis	+	++	II
134	SM-53-KDE	Enteritidis	+	+++	II
135	SM-54-KDE	Enteritidis	+	+++	II
136	SM-55-KDE	Enteritidis	+	+++	II
137	SM-56-KDE	Indiana	+	++	II
138	SM-57-KDE	Indiana	+	+++	II
139	SM-58-KDE	Typhimurium	—	+	II
140	SM-61-KDE	Newport	++	+++	II
141	SM-SC-XT-1	Enteritidis	—	+++	II
142	SM-SC-XT-2	Enteritidis	—	+++	II
143	SM-SC-XT-3	Enteritidis	+	+++	II
144	SM-SC-XT-4	Enteritidis	+	+++	II
145	SM-SC-XT-5	Enteritidis	—	+++	II
146	SM-SC-XT-6	Enteritidis	—	+++	II
147	SM-SC-XT-7	Enteritidis	+	++	II
148	SM-SC-XT-8	Enteritidis	+	+++	II
149	SM-SC-XT-9	Enteritidis	+	+++	II
150	SM-SC-XT-10	Enteritidis	+	+++	II
151	SM-SC-XT-11	Enteritidis	+	+++	II
152	SM-SC-XT-12	Enteritidis	—	+++	II
153	SM-SC-XT-13	Enteritidis	+	+++	II
154	SM-SC-XT-14	Enteritidis	—	+++	II
155	SM-SC-XT-15	Enteritidis	—	+++	II
156	SM-SC-XT-16	Enteritidis	—	+++	II
157	SM-SC-XT-17	Enteritidis	—	+++	II
158	SM-SC-XT-18	Enteritidis	—	+++	II
159	SM-SC-XT-19	Enteritidis	+	+++	II
160	SM-SC-XT-20	Enteritidis	—	+++	II
161	SM-SC-XT-21	Enteritidis	—	++	II
162	SM-SC-XT-22	Enteritidis	—	++	II
163	SM-SC-XT-23	Enteritidis	—	++	II
164	SM-SC-XT-24	Enteritidis	—	++	II
165	SM-SC-XT-25	Enteritidis	—	+++	II
166	SM-SC-XT-26	Enteritidis	—	++	II
167	SM-SC-XT-27	Enteritidis	+	++	II
168	SM-SC-XT-28	Enteritidis	+	++	II
169	SM-SC-XT-29	Enteritidis	+	++	II
170	SM-SC-XT-30	Enteritidis	—	++	II
171	SM-SC-XT-31	Enteritidis	—	+	II
172	SM-SC-XT-32	Enteritidis	+	+++	II
173	SM-SC-XT-33	Enteritidis	+	+++	II

Table S1. *Cont.*

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
174	SM-SC-XT-34	Enteritidis	+	+++	II
175	SM-SC-XT-35	Enteritidis	—	+++	II
176	SM-SC-XT-36	Enteritidis	+	++	II
177	SM-SC-XT-37	Enteritidis	+	++	II
178	SM-SC-XT-38	Enteritidis	+	++	II
179	SM-90-1	Enteritidis	—	+++	II
180	SM-90-2	Enteritidis	—	+++	II
181	SC-81	Enteritidis	—	—	II
182	SC-91	Typhimurium	++	—	II
183	SC-131	Enteritidis	—	++	II
184	L3	Enteritidis	—	+++	II
185	L5	Enteritidis	+	+++	II
186	L6	Enteritidis	+	+++	II
187	L7	Enteritidis	—	+++	II
188	L10	Enteritidis	—	+	II
189	L11	Enteritidis	—	++	II
190	L13	Enteritidis	+	+++	II
191	L20	Enteritidis	—	+	II
192	L24	Enteritidis	—	+++	II
193	L35	Enteritidis	+	+++	II
194	L40	Enteritidis	+	++	II
195	L43	Enteritidis	—	++	II
196	L44	Enteritidis	+	++	II
197	L56	Derby	—	—	II
198	L80	Indiana	+	+	II
199	L98	Indiana	+	+	II
200	L333	Enteritidis	+++	—	II
201	205	Enteritidis	+	++	II
202	206	Enteritidis	+	++	II
203	213	Enteritidis	—	+++	II
204	225	Indiana	+	++	II
205	228	Enteritidis	—	++	II
206	230	Indiana	+	++	II
207	234	Enteritidis	—	++	II
208	243	Indiana	—	+++	II
209	269	Enteritidis	+	+++	II
210	275	not belong A-f group	++	—	II
211	283	Indiana	+	++	II
212	300	Indiana	+	++	II
213	307	Indiana	+	++	II
214	312	Enteritidis	—	++	II
215	315	Indiana	+	++	II
216	324	Enteritidis	—	+++	II
217	325	Enteritidis	—	++	II

Table S1. *Cont.*

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
218	334	Enteritidis	+	+++	II
219	342	Indiana	+	++	II
220	343	Indiana	+	++	II
221	354	Enteritidis	+	++	II
222	359	Indiana	+	+++	II
223	360	Enteritidis	+	+++	II
224	365	Enteritidis	—	+++	II
225	404	Indiana	+	+++	II
226	407	Typhimurium	—	—	II
227	410	Enteritidis	+	+++	II
228	414	Indiana	+	+++	II
229	415	Indiana	+	+++	II
230	418	Enteritidis	+	+++	II
231	420	Indiana	+	++	II
232	421	Enteritidis	+	+++	II
233	431	Enteritidis	—	++	II
234	433	Enteritidis	+	+++	II
235	450	Enteritidis	+	+++	II
236	457	Enteritidis	—	+++	II
237	460	Indiana	+	+++	II
238	462	Indiana	+	+++	II
239	470	Enteritidis	+	+++	II
240	472	Enteritidis	+	+++	II
241	505	Enteritidis	+	++	II
242	507	Enteritidis	+	+++	II
243	508	Enteritidis	—	+++	II
244	513	Enteritidis	+	+++	II
245	515	Enteritidis	+	+++	II
246	517	Enteritidis	++	++	II
247	521	Typhimurium	+	++	II
248	SPu-109	Pullorum	—	+	III
249	SPu-13	Pullorum	—	—	III
250	SPu-102	Pullorum	—	—	III
251	SPu-45	Pullorum	—	+	III
252	SPu-115	Pullorum	—	+	III
253	SPu-116	Pullorum	—	+++	III
254	SPu-905	Pullorum	—	+	III
255	SPu-27	Pullorum	—	—	III
256	SPu-01	Pullorum	—	+	III
257	SPu-49	Pullorum	—	+	III
258	SPu-103	Pullorum	—	—	III
259	SPu-85	Pullorum	—	+	III
260	E2	Typhimurium	++	++	III
261	E6	Typhimurium	+	—	III

Table S1. Cont.

No.	Salmonella Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
262	E10	Typhimurium	+	++	III
263	E12	Typhimurium	+	++	III
264	E16	Typhimurium	+	++	III
265	E17	Anatum	+	+	III
266	D9	London	+	+++	III
267	S3	Typhimurium	+	++	III
268	S8	Typhimurium	+	++	III
269	S9	Typhimurium	+	++	III
270	S20	Enteritidis	+	++	III
271	DHLM-1	Typhimurium	+	+	III
272	DHLM-2	Typhimurium	+	+	III
273	JKSen	Enteritidis	+	++	III
274	C50041	Enteritidis	—	—	III
275	CYR1	Enteritidis	+++	+++	III
276	CYR2	Enteritidis	+	++	III
277	CYR3	Enteritidis	+	+++	III
278	CYR4	Enteritidis	+	+	III
279	CYR5	Enteritidis	+	+	III
280	ATCC13076	Enteritidis	+++	+++	IV
281	ATCC13311	Typhimurium	—	+++	IV
282	ATCC50073	Paratyphi A	—	+++	IV
283	CVCC2184	Enteritidis	+	+++	III
284	CMCC533	Pullorum	—	++	III
285	HNER027	Derby	+	+	V
286	HNER121	Enteritidis	+	++	V
287	HNER055	Derby	+	+	V
288	HNER127	Derby	+	++	V
289	HNER004	Derby	+	++	V
290	HNER067-1	Derby	++	++	V
291	HNER067-2	Derby	+	+++	V
292	HNER117	Derby	++	+++	V
293	HNER102	Derby	+	+++	V
294	HNER047	Derby	+	+	V
295	HNER178	Typhimurium	+	++	V
296	HNER086	Derby	++	+++	V
297	CDER157	O:10, H:1,w	—	++	V
298	CDER160	Derby	+	++	V
299	CDER188	Derby	+	+++	V
300	DBER023	Typhimurium	+	++	V
301	DLJR01	Arizonae	—	—	V
302	DBJR151	Enteritidis	+	++	V
303	DBJR193-2	Derby	+	++	V
304	DBJR236	Enteritidis	+	+	V
305	1769	Derby	+	—	VI

Table S1. Cont.

No.	<i>Salmonella</i> Strains	Serotype	Phage PA13076 Susceptibility ^a	Phage PC2184 Susceptibility ^a	Sources
306	1401	Pullorum	—	+	VI
307	1402	Pullorum	—	—	VI
308	1403	Pullorum	—	—	VI
309	1404	Pullorum	—	+	VI
310	1405	Pullorum	—	+++	VI
311	1406	Pullorum	—	++	VI

Sources: I Guo-qiang Zhu (Yangzhou University, Yangzhou, China); II Yu-qing Liu (Shandong Academy of Agricultural Sciences, Jinan, China); III Lab stock; IV Guo-xiang Cao (Chinese Academy of Aricultural Science, Yangzhou, China); V Yan-bin Zeng (Jiangxi Academy of Agricultural Sciences, Nanchang, China); VI Jian-sen Gong(Poultry institute, Chinese Academy of Aricultural Sciences, Yangzhou, China, Yangzhou, China); ^a +++, complete lysis; ++, lysis; +, turbid lysis; —, no plaques.