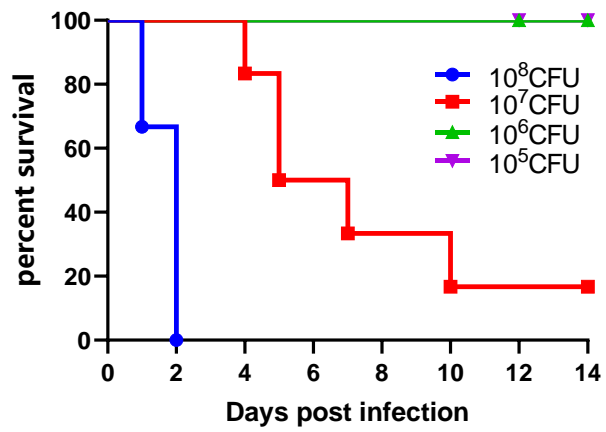


**Supplementary Figure S1.** Lytic activity of  $\Phi$ F118P13 (A) and  $\Phi$ PLL1 (B) on *S. Typhimurium* ST149 at different MOIs *in vitro*.



**Supplementary Figure S2.** The lethality of ICR mice by intraperitoneal injection with different doses of *S. Typhimurium* ST149.

**Supplementary Table S1.** Host range of *Salmonella* phage PLL1 and F118P13.

Strain	Bacteria species	Sensitivity to	Sensitivity to
		ΦPLL1 <sup>a</sup>	ΦF118P13
SPG8	<i>Salmonella</i> Pullorum	++	++
SPL4K	<i>Salmonella</i> Pullorum	-	-
ST722	<i>Salmonella</i> Typhimurium	++	++
ST149	<i>Salmonella</i> Typhimurium	++	++
ST699	<i>Salmonella</i> Typhimurium	++	++
ST18Y15	<i>Salmonella</i> Typhimurium	++	++
CVCC3377	<i>Salmonella</i> Enteritidis	++	++
SK18Y23	<i>Salmonella</i> Kentucky	-	-
SK18Y24	<i>Salmonella</i> Kentucky	-	-
SK147	<i>Salmonella</i> Kentucky	-	-
SL151	<i>Salmonella</i> London	-	-
JAF2	<i>Klebsiella pneumoniae</i>	-	-
JA4	<i>Klebsiella pneumoniae</i>	-	-
JA3-1	<i>Escherichia coli</i>	-	-
JAF1	<i>Escherichia coli</i>	-	-
FC2-2	<i>Proteus mirabilis</i>	-	-
T102-2	<i>Proteus mirabilis</i>	-	-

a: “++”, clear plaque, “-” no plaque.

**Supplementary Table S2.** Pathological feature scores used in this study.

Organ	Lesion	Score
Kidney	hyperplasia	1
	hemorrhage	2
	necrosis	3
Lung	hyperplasia	1
	exudation	2
	hemorrhage	3
Liver	organizational barriers	1
	cellular swelling	1
	inflammatory hyperplasia	2
	necrosis	3
Spleen	multinucleated giant cell hyperplasia	1
	exudation	2
	lymphocytosis	2
	white pulp reduction	3
	marginal zone reduction	3