

## Supplementary material S. 2

### *Salmonella* infection in the seeder birds three days post infection and at the end of experiment

**Table 1.** *Salmonella* Enteritidis-positive samples of cloacal swabs from the seeders in the first three days of life post infection depending on different flooring systems and dietary treatments

	Finely ground diet				Coarsely ground diet			
	L <sup>+</sup> H <sup>-</sup>	L <sup>+</sup> H <sup>+</sup>	L <sup>+/</sup> -H <sup>-</sup>	L <sup>-</sup> H <sup>-</sup>	L <sup>+</sup> H <sup>-</sup>	L <sup>+</sup> H <sup>+</sup>	L <sup>+/</sup> -H <sup>-</sup>	L <sup>-</sup> H <sup>-</sup>
Bird number	6	6	6	6	6	6	6	6
Cloacal Swabs (Npos/Ntot)	36/36	36/36	36/36	36/36	26/36	26/36	27/36	30/36
Percent (%)	100	100	100	100	72.3	72.3	75	83.3

Npos = number of *Salmonella*-positive swab samples; Ntot = total number of swab samples

L<sup>+</sup>H<sup>-</sup>: entire floor pen covered with litter; L<sup>+</sup>H<sup>+</sup>: floor pen covered with litter and floor heating; L<sup>+/</sup>-H<sup>-</sup>: partially slatted flooring; L<sup>-</sup>H<sup>-</sup>: fully slatted flooring with sand bath.

**Table 2.** *Salmonella* Enteritidis-positive samples of the caecal contents and the liver from the seeders on the day 37 depending on different flooring systems and dietary treatments

	Finely ground diet				Coarsely ground diet			
	L <sup>+</sup> H <sup>-</sup>	L <sup>+</sup> H <sup>+</sup>	L <sup>+/</sup> -H <sup>-</sup>	L <sup>-</sup> H <sup>-</sup>	L <sup>+</sup> H <sup>-</sup>	L <sup>+</sup> H <sup>+</sup> <sup>1</sup>	L <sup>+/</sup> -H <sup>-</sup>	L <sup>-</sup> H <sup>-</sup> <sup>2</sup>
<b>Caecal contents</b>								
Qualitative (Npos/Ntot)	5/6	6/6	6/6	6/6	2/6	1/4	4/6	3/5
Percent (%)	83.3	100.	100	100	33.3	25.0	66.7	60.0
Quantitative (log <sub>10</sub> CFU/g)	4.04	5.15	4.19	6.18	0.00	4.88	4.34	0.00
<b>Liver</b>								
Qualitative (Npos/Ntot)	4/6	4/6	4/6	4/6	3/6	4/4	6/6	4/5
Percent (%)	66.7	66.7	66.7	66.7	50.0	100	100	80.0

Npos = number of *Salmonella*-positive swab samples; Ntot = total number of swab samples

L<sup>+</sup>H<sup>-</sup>: entire floor pen covered with litter; L<sup>+</sup>H<sup>+</sup>: floor pen covered with litter and floor heating; L<sup>+/</sup>-H<sup>-</sup>: partially slatted flooring; L<sup>-</sup>H<sup>-</sup>: fully slatted flooring with sand bath.

<sup>1</sup> Two seeders died at d 32.

<sup>2</sup> One seeder died at d 32.