

Supplementary materials

Supplementary Table S1. Counts of *Salmonella* (log₁₀ CFU/g fecal sample) of piglets after an experimental oral infection with *Salmonella* Typhimurium for different diets.

Group	<i>Salmonella</i> test	Collection time						
		1 dpi	3 dpi	5 dpi	7 dpi	14 dpi	21 dpi	28 dpi
Control	Qualitative (n _{pos} /n _{total})	21/21	21/21	21/21	21/21	21/21	21/21	21/21
	mean	3.05 ^a ± 0.67	3.23 ^a ± 0.57	3.37 ^a ± 0.35	3.10 ^a ± 0.38	3.30 ^a ± 0.50	3.11 ^a ± 0.36	3.02 ^a ± 0.45
	Quantitative log ₁₀ CFU/g							
	min	2.0	2.0	2.6	2.4	2.4	2.4	2.4
	max	4.4	4.4	4.4	3.6	5.0	3.4	3.4
Experimental	Qualitative	21/21	21/21	21/21	21/21	21/21	20/21	20/21
	mean	2.80 ^a ± 0.57	3.02 ^a ± 0.51	3.20 ^a ± 0.54	2.86 ^a ± 0.51	2.62 ^b ± 0.17	2.40 ^b ± 0.65	2.36 ^b ± 0.57
	Quantitative log ₁₀ CFU/g							
	min	2.0	2.4	2.6	2.4	2.4	0.0	0.0
	max	3.6	4.4	4.6	4.4	3.2	3.4	2.6
	<i>p</i> -Value	0.206	0.217	0.229	0.089	< 0.001	< 0.001	0.001

^{a,b} Means in a column with different superscripts differ significantly between group ($p < 0.05$). Control: animals fed with 69% wheat compound pelleted diet; Experimental: animals fed with 69% rye compound pelleted diet.
dpi = day post infection.

Supplementary Table S2. *Salmonella* antibody status in serum of piglets in control and experimental groups (n_{pos}/n_{total}).

Collection time	Group		<i>p</i> -value
	Control (n = 21)	Experimental (n = 21)	
Before infection (0 dpi)	0 ^a /21	0 ^a /21	0.834
End of the experiment (28 dpi)	15 ^a /21	13 ^a /21	0.466

Seropositive: optical density (OD) ≥10%. n_{pos} = number of positive samples, n_{total} = number of total samples.

Control: animals fed with 69% wheat compound pelleted diet; Experimental: animals fed with 69% rye compound pelleted diet.

Supplementary Table S3. Performance data during the entire experimental period, in kg.

Parameter		Group	
		Control (n = 21)	Experimental (n = 21)
Body weight	10 days before infection	7.48 ^a ± 1.11	7.48 ^a ± 1.20
	7 days before infection	8.39 ^a ± 1.01	8.44 ^a ± 1.03
	week 1	2.63 ^a ± 0.68	2.80 ^a ± 0.68
Feed intake	week 2	4.01 ^a ± 0.82	3.97 ^a ± 0.88
	week 3	5.68 ^a ± 1.10	5.66 ^a ± 1.17
	week 4	7.54 ^a ± 1.24	7.40 ^a ± 1.23
	week 5	9.78 ^a ± 1.52	9.40 ^a ± 1.48

^a Means ± SD within the same row with same superscripts do not differ significantly (*p* > 0.05). Control: animals fed with 69% wheat compound pelleted diet; Experimental: animals fed with 69% rye compound pelleted diet.