

Oral administration of *Lactobacillus rhamnosus* GG to newborn piglets augments gut barrier function in pre-weaning piglets

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Table S1 Composition of sows' diet

Ingredients	Content (%)	Ingredients	Content (%)
Corn	40.00	Fermented soybean meal	4.29
Wheat	10.00	Corn gluten meal	5.00
Wheat bran	5.00	CaHPO ₄	1.30
Wheat middling	4.00	Zeolite powder	0.84
Rice bran	6.00	Limestone	0.80
Rice bran meal	9.56	NaCl	0.40
Soybean oil	1.66	L-Lys	0.15
Soybean meal	10.00	Premix*1.00	1.00
Total	100.00		

* The premix provides per kg of diet as follows: VA 8000IU; VD₃ 1344 IU; VE 33.6 IU; VB₁ 0.96 mg; VB₂ 3.2 mg; VB₁₂ 0.012 mg; niacin 16 mg; D-pantothenic acid 10 mg; biotin 0.168 mg; folic acid 1.28 mg; Cu 11.2mg; Fe 140 mg; Zn 65.6 mg; Mn 37.6 mg; I₂ 1.52 mg; Se 0.30 mg

Table S2 Nutrient levels of sows' diet

Items	Content (%)
DE (MJ/kg)	13.40
Crude Protein	17.40
Ca	0.80
Total Phosphorus	0.80
Available Phosphorus	0.38
L-Lys	0.93

Table S3 Composition of pre-starter feed

Ingredients	Content (%)
Corn	48.7
Dehulled soybean meal	13.0
Compressed protein	2.5
Whey meal	10.0
Fish meal	2.0
Full cream milk powder	10.0
Hyperglobulinemia	2.9
Soybean oil	2.4
Glucose	4.0
Premix*	4.5
Total	100.0

* The premix provides per kg of diet as follows: Mn 40 mg; Zn 130 mg; Cu 15 mg; I 35 mg; Se 3 mg; VA 11025 IU; VD₃ 2203 IU; VE 80 IU; menadione 4.4 mg; thiamine 4.4 mg; riboflavin 11 mg; D-pantothenic acid 35 mg; niacin 59.5 mg; choline 330 mg; folic acid 0.9 mg; biotin 0.5 mg; VB₁₂ 55 µg.

Table S4 Nutrient levels of pre-starter feed

Items	Content (%)
DE (MJ/kg)	14.02
Crude Protein	21.00
Lys	1.42
Met+Cys	0.81
Ca	0.88
P	0.74

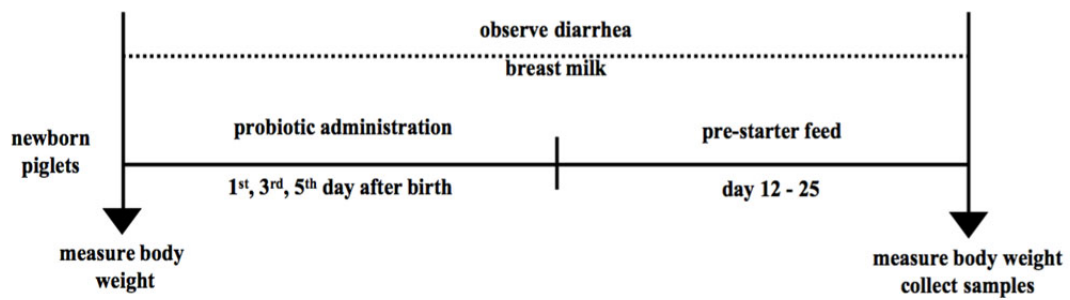


Fig. S1 Experimental protocol design