

**Average daily gain in lambs weaned at 60 days of age is correlated with
rumen and rectum microbiota**

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Running title: Correlation of gut microbiota to average daily gain.

Supplementary Table S1. Nutrient composition of experimental diets of Hu sheep (dry matter basis)

Items ¹ , %	Starter	TMR
Ingredients		
Cornstalk		40.00
Corn	53.20	35.50
Soybean meal	9.10	15.00
Wheat bran	2.00	7.20
Soybean skin	6.20	
Beet pulp	4.70	
Extruded Soybean	8.50	
Fermented soybean meal	9.60	
Soybean oil	2.20	
Whey powder	2.00	
Limestone	1.20	0.30
CaHPO ₄		0.20
NaCl	0.30	0.80
Premix ²	1.00	1.00
Total	100.00	100.00
Chemical compositions		
Dry matter	95.83	77.20
Gross energy, MJ/kg DM	17.56	15.07

Crude protein	21.20	14.61
Neutral detergent fiber	16.44	37.60
Acid detergent fiber	7.04	21.81
Calcium	0.74	0.70
Phosphorus	0.48	0.43

¹Chemical composition measured by AOAC method. TMR: Total Mixed Rations.

²Premix containing: 17456 IU/kg of vitamin A, 50 mg/kg of vitamin E, 3740 IU/kg of vitamin D, 98.70 mg/kg of Fe, 72.90 mg/kg of Zn, 57.4 0 mg/kg of Mn, 15.94 mg/kg of Cu, 0.33 mg/kg of Se, 1.30 mg/kg of I and 0.39 mg/kg of Co.