

Table S1 Ingredients and chemical composition of dietary treatment in native Thai cattle diet (Sommart et al., 2017)

Item ¹	RS-FTMR	NG-FTMR	Pakchong 1- Napier grass	Rice straw
Ingredients, %DM				
Rice straw	20	-		
Pak Chong 1 Napier grass	-	20		
Cassava pulp	28	28		
Cassava chip	10	10		
Palm meal	25	25		
Soybean meal	10	10		
Rice bran	5	5		
Urea	0.7	0.7		
Mineral ²	0.8	0.8		
Limestone	0.5	0.5		
Total	100	100		
Analyzed chemical composition, %DM				
Dry matter	39.5	32.6	18.7	92.8
Organic matter	91.8	93.2	88.0	88.0
Crude protein	14.1	15.8	8.0	2.7
Ether extract	5.2	5.5	2.8	0.9
Neutral detergent fiber	44.5	41.2	73.0	77.0
Acid detergent fiber	31.0	29.1	49.4	51.6
Energy density, MJ/kg DM				
Gross energy	17.8	17.8	16.1	16.2
Metabolizable energy (calculated)	9.6	9.8	7.9	6.5
Cost, Baht/kg FM	3.79	3.67	1.1	2.3
Cost, Baht/kg DM	10.04	9.72	5.9	2.5

¹ RS-FTMR = Rice straw base fermented total mixed ration, NG-FTMR = Pak Chong 1-Napier grass base fermented total mixed ration.

² Chemical compositions were calcium = 164.00 g, cobalt = 0.04 g, copper = 1.00 g, iodine = 0.04 g, iron = 2.00 g, magnesium = 2.89 g, manganese = 11.00 g, phosphorus = 80.00 g, selenium = 0.03 g, sodium = 136.60 g, sulfur = 19.20 g and carrier = 1,000 g