

Table 1. Composition of Experimental Diets (as-fed basis)

Ingredient	Diet		
	1	2	3
Field peas, %	75	75	—
Corn starch, %	8.6	8.58	49.05
Sugar, %	15	15	20
Gelatine, %	—	—	20
Solka floc, %	—	—	4
Soy oil, %	—	—	4
Limestone, %	0.7	0.7	0.8
DL-Methionine, %	—	—	0.34
L-Threonine, %	—	—	0.09
L-Tryptophan, %	—	—	0.14
L-Histidine, %	—	—	0.1
L-Isoleucine, %	—	—	0.22
L-Valine, %	—	—	0.08
Phytase, %	—	0.02	—
Salt, %	0.4	0.4	0.4
Vitamin premix, % ^a	0.05	0.05	0.05
Micromineral premix, % ^b	0.25	0.25	0.25
Magnesium oxide, %	—	—	0.08
Potassium carbonate, %	—	—	0.4
Nutrients, calculated			
Mcal ME/kg.	3,330	3,330	3,446
Crude protein, %	15.5	15.5	18
Calcium, %	0.35	0.35	0.30
Phosphorus, %	0.29	0.29	0

^aThe vitamin premix provided the following quantities of vitamins per kg. of complete diet: vitamin A, 5,000 IU; vitamin D3, 500 IU; vitamin E, 44 IU; vitamin K3, 2.2 mg.; thiamin, 1.5 mg.; riboflavin, 5 mg.; Pyridoxine, 2.0 mg.; vitamin B12, 0.025 mg.; D-pantothenic acid, 13.2 mg.; niacin, 25 mg.; folic acid, 1.5 mg.; biotin, 0.2 mg.; choline, 1250 mg.

^bThe micromineral premix provided the following quantities of minerals per kg. of complete diet: Se, 0.30 mg. as sodium selenite; I, 0.30 mg. as potassium iodate; Cu, 25 mg. as copper sulfate; Mn, 25 mg. as manganese sulfate; Fe, 120 mg. as iron sulfate; Zn, 125 mg. as zinc oxide.

Table 2. Apparent and True Digestibility of Phosphorus in Field Peas Without and With Phytase^{a,b}

Item	Diet	
	Field peas without phytase	Field peas with phytase
Feed intake, g. dry matter	3,642	3,746
Phosphorus intake, g.	12.86	13.88
Fecal output, g. dry matter	278.2	219
Fecal output of phosphorus, g.	5.77	4.08
ATTD ^c , phosphorus, %	55	70
TTTD ^d , phosphorus, %	60.8	75.6

^aData represent intake and output over a five-day collection period.

^bData represent means of five observations per treatment.

^cATTD = Apparent total tract digestibility.

^dTTTD = True total tract digestibility. Calculated by correcting ATTD for endogenous losses of P (calculated as 207 mg. per kg. dry matter intake).