soybean meal (SBM) fed to growing pigs. The concentration of DM, GE, and P was 94.8%, 5,103 kcal/kg and 1.07% in Y1; 94.4%, 4,926 kcal/kg, and 2.01% in Y2; 93.6%, 4,524 kcal/kg, and 1.40% in BY; 91.4%, 4,461 kcal/kg, and 3.26% in FM; and 87.7%, 4,136 kcal/kg, and 0.70% in SBM. The DE and ME in each of the ingredients were measured using 42 growing barrows (28.9 \pm 1.28 kg BW). A cornbased basal diet and 5 diets containing corn and 24 to 40% of each test ingredient were formulated. The total collection method was used to collect feces and urine, and the difference procedure was used to calculate values for DE and ME in each ingredient. The concentrations of DE in corn, Y1, Y2, BY, FM, and SBM were 4,004, 4,344, 4,537, 4,290, 4,544, and 4,362 kcal/kg DM (SEM = 57), respectively, and the ME values were 3,879, 3,952, 4,255, 3,771, 4,224, and 4,007 kcal/ kg DM (SEM = 76). The ME in Y2 and FM was greater (P < 0.05) than the ME in corn and BY, whereas the ME in YA and SBM were not different from that of any of the other ingredients. The STTD of P in the 5 ingredients was determined using 42 barrows (28.3 ± 7.21 kg BW) that were placed in metabolism cages. Five diets were formulated to contain each test ingredient as the sole source of P and a P-free diet was used to estimate the basal endogenous loss of P. Fecal materials were collected for 5 d based on the marker to marker principle after a 5-d adaptation period. The STTD of P in BY (85.2%) was greater (P < 0.05) than the STTD of P in all the other ingredients except Y2 (75.7%). The STTD of P in Y1 (73.9%) was not different from the STTD of P in YB and FM (67.3%), but greater (P < 0.05) than the STTD of P in SBM (56.7%). In conclusion, the 2 novel sources of yeast contain a similar or greater concentration of energy than BY, corn, FM, and SBM, and the STTD of P in the 2 products is not different from the STTD of P in FM.

Key Words: digestibility, pigs, yeast

145 Energy concentration and phosphorus digestibility in yeast products, fish meal, and soybean meal fed to growing pigs. B. G. Kim* and H. H. Stein, *University of Illinois, Urbana.*

Two experiments were conducted to measure DE and ME and the standardized total tract digestibility (STTD) of P in 2 novel yeast products (Y1 and Y2), and in brewers yeast (BY), fish meal (FM), and