

Table 11. Apparent amino acid digestibility coefficients of various feed ingredients by grass carp

Feed ingredients	Arginine	Histidine	Isoleucine	Leucine	Lysine	Methionine	Phenylalanine	Threonine	Valine	Tyrosine
Animal origin										
Fishmeal (imported)	87.2	89.5	89.2	88.3	93.9	87.3	96.3	68.8	90.5	90.3
Fishmeal (local)	97.1	35.4	90.2	81.7	91.3	96.9	62.1	87.7	94.6	69.7
Crab meal	84.7	83.6	99.5	86.6	26.8	88.0	65.4	60.1	22.0	80.0
Meat meal	82.1	79.8	45.0	79.5	53.1	79.2	49.0	65.4	66.7	81.9
Plant origin										
Yeast meal	87.9	38.1	25.1	60.1	94.8	31.6	67.9	54.9	85.0	35.0
Rapeseed meal (extracted)	96.8	83.8	70.5	76.2	94.7	76.4	54.8	61.1	68.0	63.0
Yellow rapeseed meal	97.1	96.9	83.3	86.0	94.2	83.7	46.1	70.8	89.1	74.5
Black rapeseed meal	96.0	93.1	53.9	71.6	83.1	64.5	56.5	36.2	79.5	60.7
Double low rapeseed meal	98.2	85.2	40.7	90.2	84.8	47.2	96.4	53.8	91.3	69.4
Soybean meal	96.9	98.9	20.1	92.4	91.5	69.6	48.7	58.2	71.4	70.4
Exturded soybean	93.7	85.8	27.4	62.2	84.5	67.0	87.2	62.5	65.6	29.1
Sesame meal	95.0	85.4	49.0	58.3	92.0	84.8	47.0	51.0	72.4	75.8
Cottonseed meal	95.4	35.4	96.7	77.9	82.3	71.2	50.0	75.4	90.2	82.8
Corn germ meal	96.0	90.7	93.0	77.7	81.0	78.0	67.2	58.1	60.4	54.6
Corn gluten meal	94.0	61.6	80.2	71.8	71.7	46.0	54.6	35.0	72.6	71.7
Distiller's grain meal	92.1	76.5	87.9	80.7	72.1	77.8	65.3	33.4	55.8	66.4
Corn grain	67.5	68.8	67.5	63.1	80.9	32.5	39.0	69.8	51.4	64.6
Wheat bran	38.2	87.3	90.8	86.8	85.4	80.9	70.6	75.9	53.2	52.4
Wheat middling	37.1	57.5	51.2	61.1	69.6	81.5	95.0	61.1	79.1	63.0
Rice bran	78.1	86.5	67.1	91.1	98.6	76.1	57.7	71.5	88.8	96.0
Standard starch	83.0	83.5	60.2	84.0	76.0	75.3	79.6	48.6	62.8	74.2
Wheat grain	94.3	84.9	51.3	95.4	96.0	73.5	91.8	58.6	76.4	80.6
Barly grain	60.2	58.1	56.7	72.9	62.9	44.9	61.3	40.8	32.4	64.7
Corn distillers	97.5	89.0	78.6	95.4	92.7	75.7	95.8	80.5	42.6	39.8
Rice	89.9	52.1	60.4	57.0	73.8	51.6	51.7	88.9	65.6	79.5

Data source: Ye et al. (2003)