

Table 4.1. Nutrient and energy requirements of common carp (*Cyprinus carpio*) in different life stages

Nutrient level	Life stage			Reference
	Fry	Fingerling and grower	Adult	
Crude protein, % min	43–47	34–37	28–32	Nose (1979)
Crude lipid, % min		4.6 (1)	5–15 (2)	(1) Li (1996), (2) Takeuchi <i>et al.</i> (1979a)
Essential fatty acids, % min				
• 18:2n-6		1		Takeuchi (1996)
• 18:3n-3		0.5–1		Takeuchi and Watanabe (1977)
Carbohydrate, % max		38.5		Li (1996)
Crude fibre, % max		3.7–7.0		Li (1996)
Digestible protein, % ¹		31.5		Takeuchi <i>et al.</i> (1979b)
Digestible energy, min kJ/g ¹		13–15		Takeuchi <i>et al.</i> (1979b)
Protein to energy ratio, mg/kJ ²		25.8		Takeuchi <i>et al.</i> (1979b)

¹Digestible protein and energy were estimated from ingredient composition of the diet.

²Digestible protein/digestible energy.