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Macro Nutrient	Key Roles		
Protein	Enzymes, muscle building, hormones, structural proteins (collagen), immune support (anti-bodies), amino acid source.		
Lipids	Dietary energy, insulation, cell membrane structure, hormone structure, energy storage, immune support.		
Carbohydrates*	Energy Sources (herbivores/omnivores), binding agent (carnivores)		
Micro-Nutrient	Key Roles		
Minerals	e.g. bone formation and hemoglobin		
Vitamins	e.g. skeletal growth and blood clotting		
Pigments	Vitamin A production & Antioxidants, protecting fatty acids in eggs.		
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Source Summary				
Macro Nutrient	Traditional Sources		Emerging sources	
Protein	Fish meal, Soybean Meal, (some other plant meals)		Bacterial meals, fungal meals, Insect meals.	
Lipids	Fish oil, rapeseed oil, canola oil*		Microalgae oils	
Carbohydrates	Wheat			
Micro-Nutrient		Sources		
Minerals Vitamins		Mineral premix Vitamin premix		
Pigments		Crustacean material and red-microalgae		

































