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The global demand for animal-based products is growing, driven

carbon dioxide as they grow, making them a potentially carbon-negative feed ingredient.

Microalgae: Microalgae can be used as a direct protein supplement for farmed fish, poultry, and livestock, as well as a feed ingredient in pet food and aquaculture diets. Spirulina and Chlorella are two examples of algae species that have been used in animal nutrition [9].

Fungal Proteins: Fungal proteins, derived from various species of fungi, including yeast and mushrooms, offer an innovative approach to sustainable protein production. Mycoprotein is one such example, produced through fermentation processes.

Nutritional Profile: Fungal proteins are rich in protein and contain

