

	Kenzen Primary Diet	Kenzen Breeders Choice	Saki Hikari Growth	JPD Shori High Growth (Champion) (Note 1)	Tomigai Tategoi	Mizuho Normal Floating Pellets	Hai Feng Alife	Blackwater Gold-N Professional	Ultra Balance Premium All Season
Crude Protein (min)	49.0%	40.0%	40.0%	45.0%	40.0%	40.0%	42.0%	40.0%	35.0%
Crude Fat/Oil (min)	9.0%	12.0%	9.0%	8.0%	6.0%	4.0%	4.0%	10.0%	4.0%
Ash (max)	9.0%	Note 3	17.0%	8.5%	9.0%	Note 4	12.0%	Note 3	5.0%
Crude Fiber (max)	1.0%	0.7%	1.0%	2.5%	3.0%	4.0%	Note 2	4.0%	10.0%
Moisture (max)	10.0%	10.0%	10.0%	12.0%	10.0%	5.0%	10.0%	10.0%	Note 4
Carbohydrates	22.0%	37.0%	23.0%	24.0%	32.0%	38.0%	32.0%	26.0%	46.0%
bag price	\$350.0	\$70.0	\$249.95	\$193.70	\$190.00	\$179.95	\$298.01	\$230.60	\$130.05
bag weight	50	10	33	22	40	22	33	40	40
price/pound	\$7.00	\$7.00	\$7.57	\$8.80	\$4.75	\$8.18	\$9.03	\$5.77	\$3.25
Top 5 ingredients:	Herring meal potato starch Whole dried eggs L-Lysine DL methionine	Menhaden fish meal Potato starch Soy bean oil DL Methionine L-Lysine	Fish meal wheat flour wheat germ meal fish oil brewers dried yeast	Fish meal Wheat soya dehulled wheat gluten wheat germ	White fish meal wheat flour soybean meal squid meal krill meal	fish meal soybean cake oil rice bran cake oil potato starch wheat flour	Wheat germ meal white fish meal shrimp meal spirulina soybean meal	Fish meal Wheat flour Shrimp meal Dried Kelp Rice Bran	Fish meal Wheat flour Wheat bran Corn meal Alfalfa meal

#### Notes

1. Karen struck a deal with a vendor and got JPD Shori for \$6.59/lb.
2. Manufacturer does not list fiber content on packaging label. Fiber is estimated in order to calculate carbohydrates
3. Manufacturer does not list ash content on packaging label. Ash is estimated in order to calculate carbohydrates
4. Manufacturer does not list moisture content on packaging label. h is estimated in order to calculate carbohydratesMoisture

#### Glossary

Brewers dried yeast is a by-product of beer making and is 47.6% protein, although lacking essential amino acids (e.g. cystine and histidine)

DL-methionine is an synthetic α-amino acid (protein). It is an essential amino acid for fish. 0.94% of diet (dry) should be Lysine.

Lysine is an α-amino acid (protein). It is an essential amino acid for fish. 1.74% of diet (dry) should be Lysine.

Menhaden is the major source of fish meal produced in the U.S. It has a crude protein content of 62%.

potato starch is extracted from potatoes and is a carbohydrate consisting of a large number of glucose units joined by glycosidic bonds.

Soya dehulled is the meat of the soybean. It is 48% protein, and contains the essential amino acids for Koi

Spirulina (actual name Spirulina Arthrospira) is a planktonic blue-green algae. It is 70% protein and contains all essential and contains the essential amino acids for Koi