

2019

CATFISH

African sharptooth catfish are a source of high-quality proteins and omega-3 fatty acids. These qualities make the catfish extremely nutritious and tasty – perfect for a rapidly expanding global population.



Sinking feed



Floating feed



Semi-floating feed



Free from land animal protein



High digestibility



Omega-3 fatty acids



Designed for Recirculating Aquaculture Systems (RAS)



Sustainable fishfeed



With astaxanthine



Low nitrogen and phosphorus emission



Improved resistance



Alltech® COPPENS

DEDICATED TO YOUR PERFORMANCE

AQUATE™

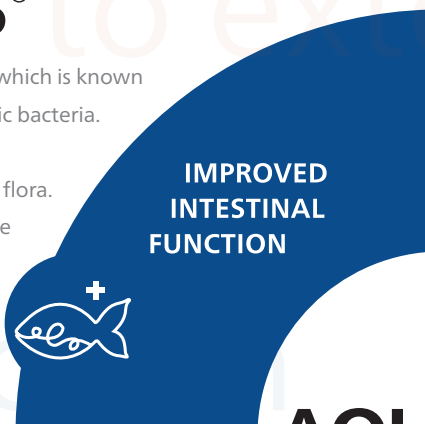
Innovative premix in all **Alltech Coppens'** feeds.

- + Optimizes growth
- + Supports immune response
- + Optimizes digestive function
- + Contributes to mucous barrier protection
- + Contributes to external barrier protection



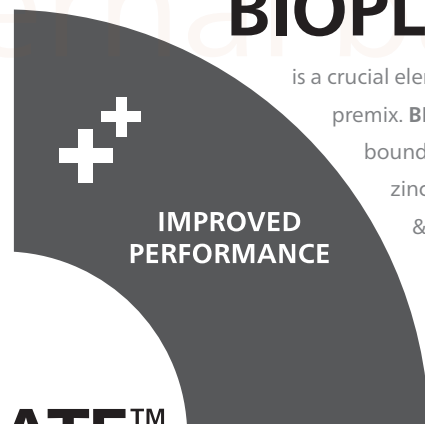
BIO-MOS®

is a mannan-oligosaccharide, which is known to bind and drain opportunistic bacteria. This can result in a significant improvement of the intestinal flora. Additionally, it can improve the structure and length of the microvilli in the gut through which the nutrient intake can increase. **BIO-MOS®** contributes to mucous barrier protection.



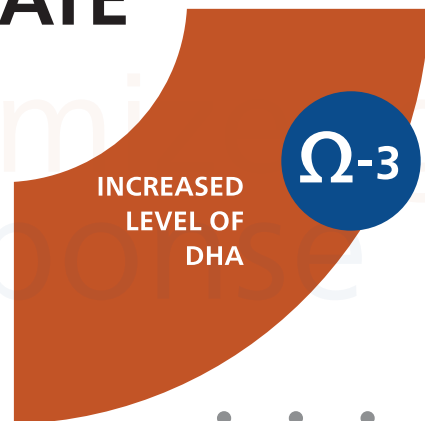
BIOPLEX®

is a crucial element in our new premix. **BIOPLEX®** are organically bound trace elements such as zinc, copper, manganese & iron. With **BIOPLEX®** we can improve the health, growth & performance of the fish.



ACTIGEN®

is derived from yeast cell walls and supports the fish's immune response. **Actigen®** furthermore optimizes growth in fish.



AQUATE™



Feeding table for fry:

Fry is fed to satiation ($\geq 6\%$ body weight/day)

Based on an optimal water quality and a water temperature of 27-30 °C

Feeding days	Fish weight (g)	Feed size (mm)	Feeding advice
1	0,005	Live feed	Artemia
2	0,009	Live feed	Artemia
3	0,015	90% artemia + 10% 0.2-0.3	Artemia + Essence/Advance
4	0,022	75% artemia + 25% 0.2-0.3	Artemia + Essence/Advance
5	0,03	50% artemia + 50% 0.2-0.3	Artemia + Essence/Advance
6	0,04	75% 0.2-0.3 + 25% artemia	Essence + Artemia
7	0,06	90% 0.2-0.3 + 10% artemia	Essence + Artemia
8	0,08	95% 0.2-0.3 + 5% artemia	Essence + Artemia
9	0,10	75% 0.2-0.3 + 25% 0.3-0.5	Advance/TOP
10	0,12	50% 0.2-0.3 + 50% 0.3-0.5	Advance/TOP
11	0,15	25% 0.2-0.3 + 75% 0.3-0.5	Advance/TOP
12	0,18	0.3-0.5	Advance/TOP
13	0,22	0.3-0.5	Advance/TOP
14	0,26	0.3-0.5	Advance/TOP
15	0,31	0.3-0.5	Advance/TOP
16	0,36	0.3-0.5	Advance/TOP
17	0,42	0.3-0.5	Advance/TOP
18	0,48	0.3-0.5	Advance/TOP
19	0,55	0.3-0.5	Advance/TOP
20	0,63	0.3-0.5	Advance/TOP
21	0,71	0.5-0.8	Noblesse/Advance/Top
22	0,80	0.5-0.8	Noblesse/Advance/Top
23	0,90	0.5-0.8	Noblesse/Advance/Top
24	1,0	0.5-0.8	Noblesse/Advance/Top
25	1,1	0.5-0.8	Noblesse/Advance/Top
26	1,2	0.5-0.8	Noblesse/Advance/Top
27	1,4	0.5-0.8	Noblesse/Advance/Top
28	1,5	0.5-0.8	Noblesse/Advance/Top
29	1,6	0.5-0.8	Noblesse/Advance/Top
30	1,8	0.5-0.8	Noblesse/Advance/Top
31	2,0	0.8-1.2	Noblesse/Advance/Top/Start Premium
32	2,1	0.8-1.2	Noblesse/Advance/Top/Start Premium
33	2,3	0.8-1.2	Noblesse/Advance/Top/Start Premium
34	2,5	0.8-1.2	Noblesse/Advance/Top/Start Premium
35	2,7	0.8-1.2	Noblesse/Advance/Top/Start Premium
36	2,9	0.8-1.2	Noblesse/Advance/Top/Start Premium
37	3,2	0.8-1.2	Noblesse/Advance/Top/Start Premium
38	3,4	0.8-1.2	Noblesse/Advance/Top/Start Premium
39	3,7	0.8-1.2	Noblesse/Advance/Top/Start Premium
40	3,9	0.8-1.2	Noblesse/Advance/Top/Start Premium
41	4,2	1.2-1.5	Advance/Top/Start Premium
42	4,5	1.2-1.5	Advance/Top/Start Premium
43	4,8	1.2-1.5	Advance/Top/Start Premium
44	5,1	1.2-1.5	Advance/Top/Start Premium
45	5,4	1.2-1.5	Advance/Top/Start Premium
46	5,8	1.2-1.5	Advance/Top/Start Premium
47	6,1	1.2-1.5	Advance/Top/Start Premium
48	6,5	1.2-1.5	Advance/Top/Start Premium
49	6,9	1.2-1.5	Advance/Top/Start Premium
50	7,3	1.2-1.5	Advance/Top/Start Premium
51	7,7	1.5	Start Premium
52	8,1	1.5	Start Premium
53	8,6	1.5	Start Premium
54	9,0	1.5	Start Premium
55	9,5	1.5	Start Premium
56	10,0	1.5	Start Premium

* Feeding advice is expressed in % biomass/day.

* This feedingtable is a guideline only and based on optimal conditions.

Feeding table for Grow-out:

Based on an optimal water quality and a water temperature of 27-30 °C

Feeding days	Fish weight (g)	Feed level (%BW/day)	Feed type
0	10	5,62	Start premium 1.5
1	11	5,59	Start premium + Pre grower 2.0
2	12	5,57	Start premium + Pre grower 2.0
3	13	5,55	Pre grower 2.0
4	15	5,51	Pre grower 2.0
5	16	5,47	Pre grower 2.0
6	18	5,44	Pre grower 2.0
7	19	5,40	Pre grower 2.0
14	35	4,99	Pre grower 2.0
21	58	4,48	Grower 3.0
28	90	4,04	Grower 3.0
35	132	3,61	Grower 3.0
42	184	3,16	Grower 4.5
49	242	2,74	Grower 4.5
56	305	2,37	Grower 4.5
63	372	2,08	Grower 4.5
70	441	1,87	Grower 4.5/6.0
77	514	1,70	Grower 4.5/6.0
84	589	1,57	Grower 4.5/6.0
91	669	1,50	Grower 4.5/6.0
98	754	1,43	Grower 4.5/6.0
105	845	1,36	Grower 4.5/6.0
112	940	1,30	Grower 4.5/6.0
119	1040	1,24	Grower 4.5/6.0
126	1144	1,18	Grower 4.5/6.0
133	1251	1,12	Grower 4.5/6.0
140	1361	1,06	Grower 4.5/6.0
147	1473	1,02	Grower 4.5/6.0
154	1589	0,97	Grower 6.0/8.0
161	1706	0,92	Grower 6.0/8.0
168	1826	0,89	Grower 6.0/8.0
175	1948	0,86	Grower 6.0/8.0
178	2000	0,84	Grower 6.0/8.0

*Feeding advice is expressed in % biomass/day.

*This feedingtable is a guideline only and based on optimal conditions.

- High performance
- High survival



COMPOSITION:

Analyses (%)

		Sizes
Protein	56	0.2-0.3 mm
Fat	15	0.3-0.5 mm
Crude fibre	0.1	0.5-0.8 mm
Ash	12.0	0.8-1.2 mm
Total P	1.99	1.2-1.5 mm

Vitamins added

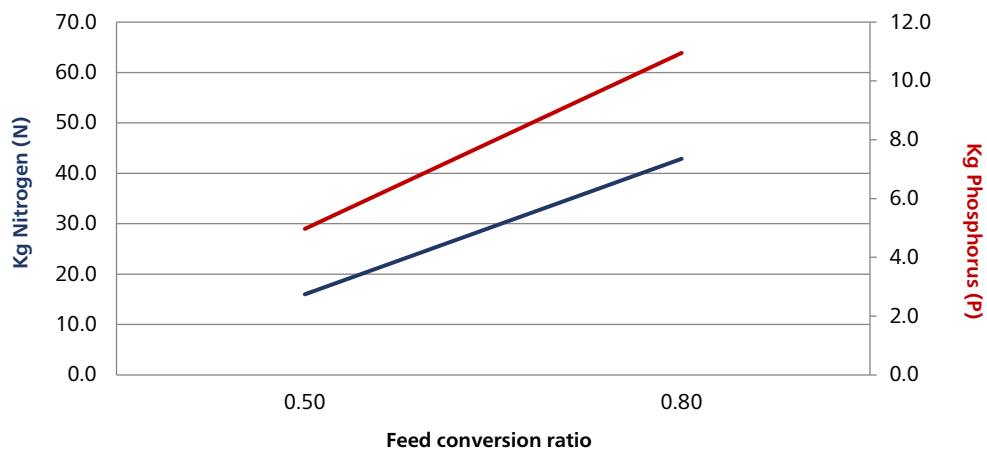
Vitamin A (IE/kg)	14000
Vitamin E (mg/kg)	280
Vitamin C (stable) (mg/kg)	700

Energy (MJ/kg)

Gross Energy	21.1
Digestible Energy	14.7

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Low fat granulate
- Semi-intensive farming
- High survival
- Good performance



COMPOSITION:

Analyses (%)	0.2-0.3 mm	0.3-0.5 mm	0.5-0.8 mm	0.8-1.2 mm	1.2-1.5 mm
Protein	47	47	46	46	46
Fat	9	9	10	10	10
Crude fibre	1.2	1.2	1.1	1.1	1.1
Ash	10.8	10.8	10.6	10.6	10.6
Total P	1.80	1.80	1.78	1.78	1.78

Vitamins added

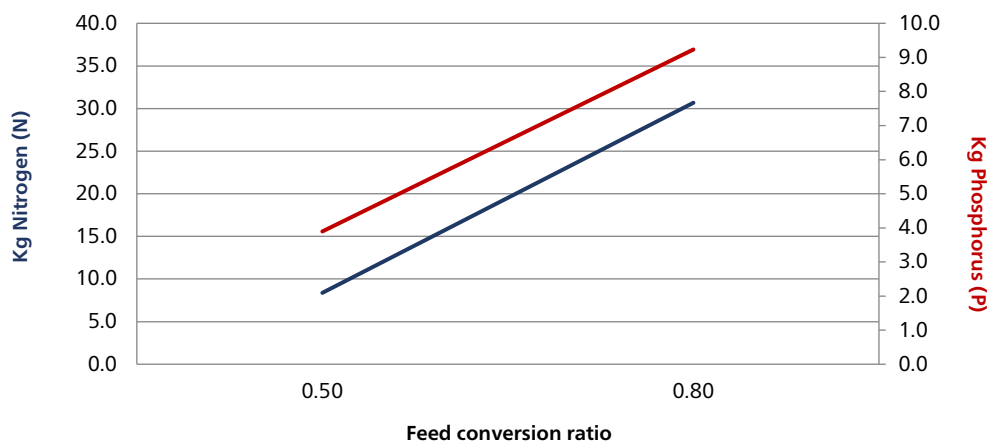
Vitamin A (IE/kg)	14000	14000	14000	14000	14000
Vitamin E (mg/kg)	280	280	280	280	280
Vitamin C (stable) (mg/kg)	700	700	700	700	700

Energy (MJ/kg)

Gross Energy	19.2	19.2	19.4	19.4	19.4
Digestible Energy	17.5	17.5	17.7	17.7	17.7

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



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For the exact values we refer to the label.

- Micro pellet
- High survival
- High performance
- Supports a high water quality
- With nucleotides



COMPOSITION:

Analyses (%)	0.5 mm	0.8 mm
Protein	55	54
Fat	16	18
Crude fibre	1.0	1.0
Ash	13.0	12.0
Total P	2.00	2.00

Vitamins added

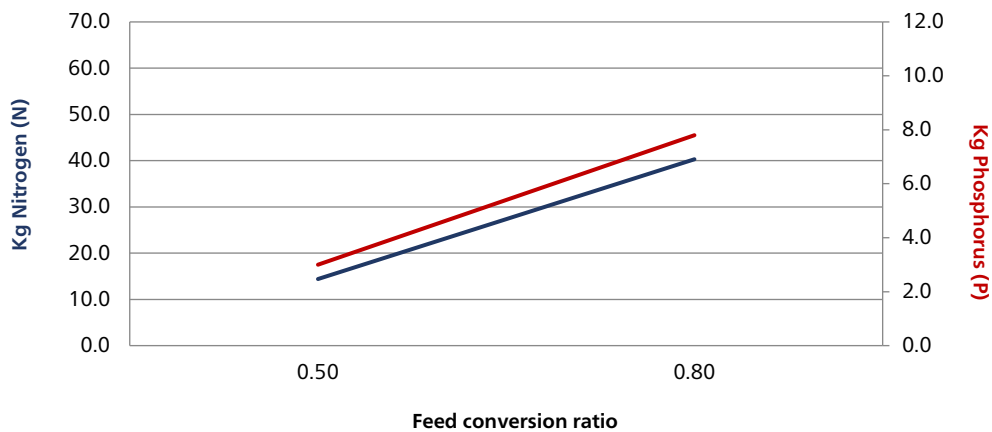
Vitamin A (IE/kg)	25000	25000
Vitamin E (mg/kg)	400	400
Vitamin C (stable) (mg/kg)	1000	1000

Energy (MJ/kg)

Gross Energy	21.0	21.5
Digestible Energy	19.2	19.5

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

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For the exact values we refer to the label.

- Mini pellet
- High protein level
- High performance



COMPOSITION:

Analyses (%)

Protein	54
Fat	15
Crude fibre	0.3
Ash	10.3
Total P	1.73

Sizes

1.0 mm
1.5 mm

Vitamins added

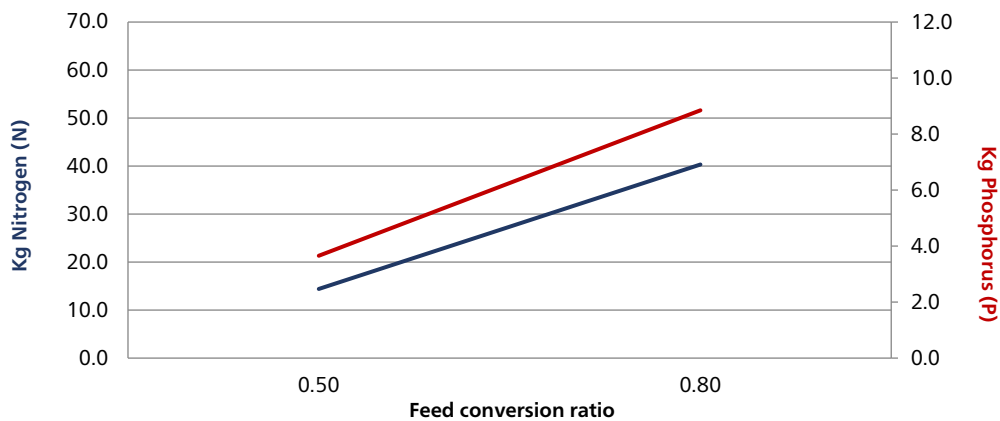
Vitamin A (IE/kg)	12000
Vitamin E (mg/kg)	240
Vitamin C (stable) (mg/kg)	600

Energy (MJ/kg)

Gross Energy	21.1
Digestible Energy	19.6

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive farming
- High survival
- Good performance
- Very palatable



COMPOSITION:

Analyses (%)

Protein	49
Fat	13
Crude fibre	1.4
Ash	8.1
Total P	1.26

Sizes

1.5 mm

Vitamins added

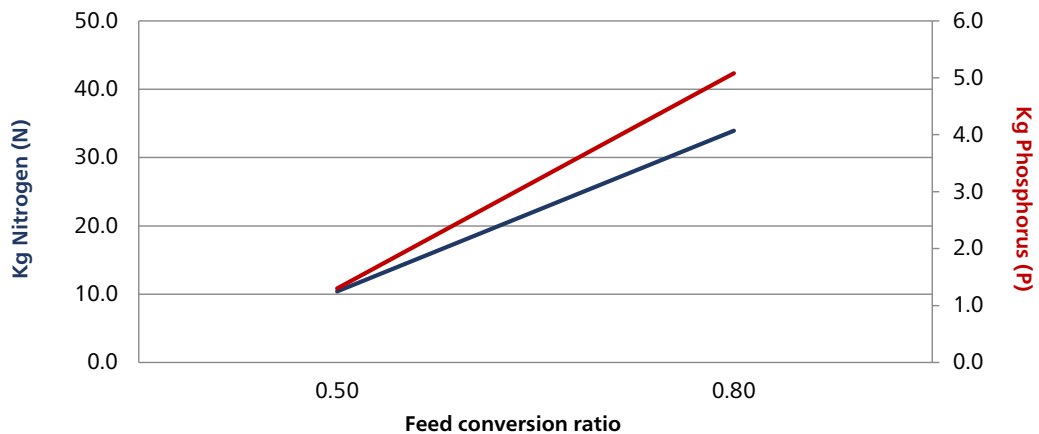
Vitamin A (IE/kg)	12000
Vitamin E (mg/kg)	240
Vitamin C (stable) (mg/kg)	300

Energy (MJ/kg)

Gross Energy	20.6
Digestible Energy	18.7

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- High performance diet
- Optical feeding control
- Very palatable



COMPOSITION:

Analyses (%)

Protein	50
Fat	15
Crude fibre	0.7
Ash	8.8
Total P	1.31

Sizes

2.0 mm

Vitamins added

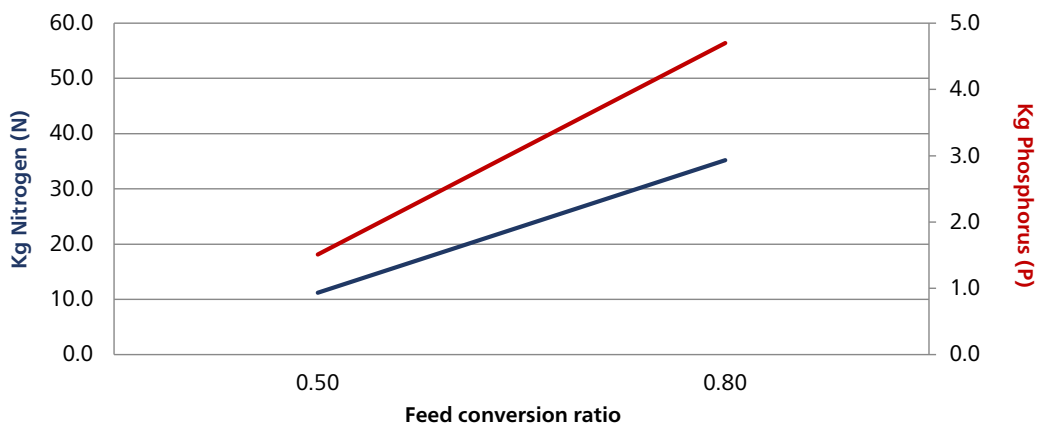
Vitamin A (IE/kg)	12000
Vitamin E (mg/kg)	240
Vitamin C (stable) (mg/kg)	300

Energy (MJ/kg)

Gross Energy	21.1
Digestible Energy	19.4

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive systems
- Good performance
- Very palatable
- Optical feeding control



COMPOSITION:

Analyses (%)

Analyses (%)		Sizes
Protein	42	2.0 mm
Fat	13	
Crude fibre	2.3	
Ash	6.4	
Total P	0.87	

Vitamins added

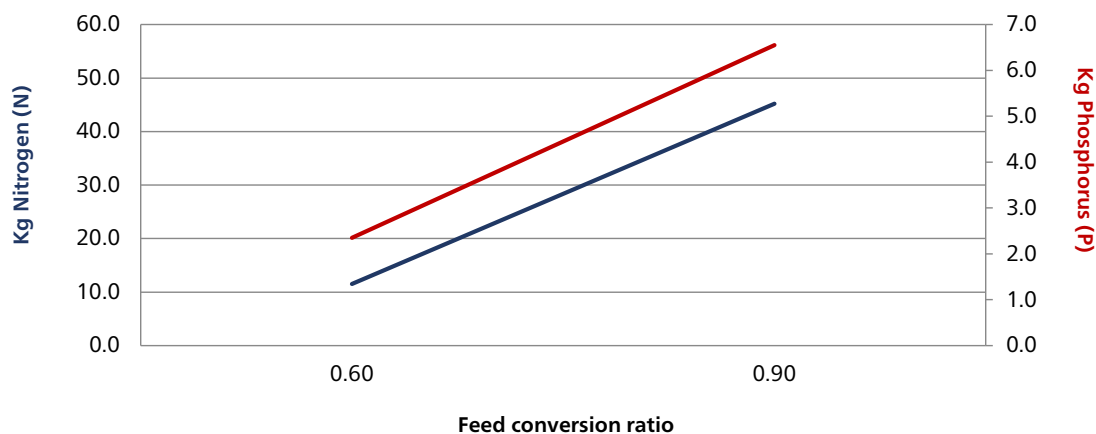
Vitamin A (IE/kg)	12000
Vitamin E (mg/kg)	240
Vitamin C (stable) (mg/kg)	300

Energy (MJ/kg)

Gross Energy	20.6
Digestible Energy	16.2

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Fast and efficient growth
- Very palatable
- High water quality
- Optical feeding control



COMPOSITION:

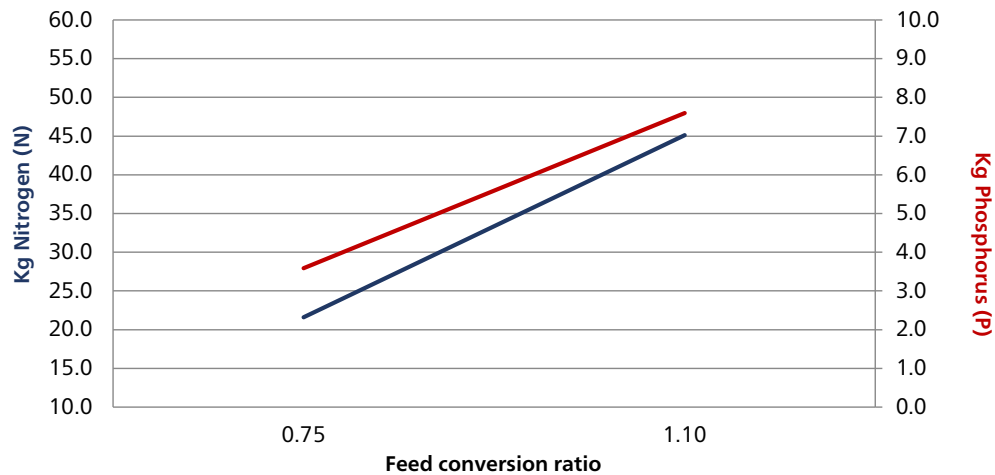
Analyses (%)	3.0 mm	4.5 mm
Protein	48	42
Fat	13	13
Crude fibre	1.4	1.5
Ash	9.6	7.9
Total P	1.39	1.15

Vitamins added	3.0 mm	4.5 mm
Vitamin A (IE/kg)	10000	10000
Vitamin E (mg/kg)	200	200
Vitamin C (stable) (mg/kg)	250	250

Energy (MJ/kg)	3.0 mm	4.5 mm
Gross Energy	20.0	19.9
Digestible Energy	18.1	17.9

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive systems
- Good performance
- Very palatable
- Optical feeding control



COMPOSITION:

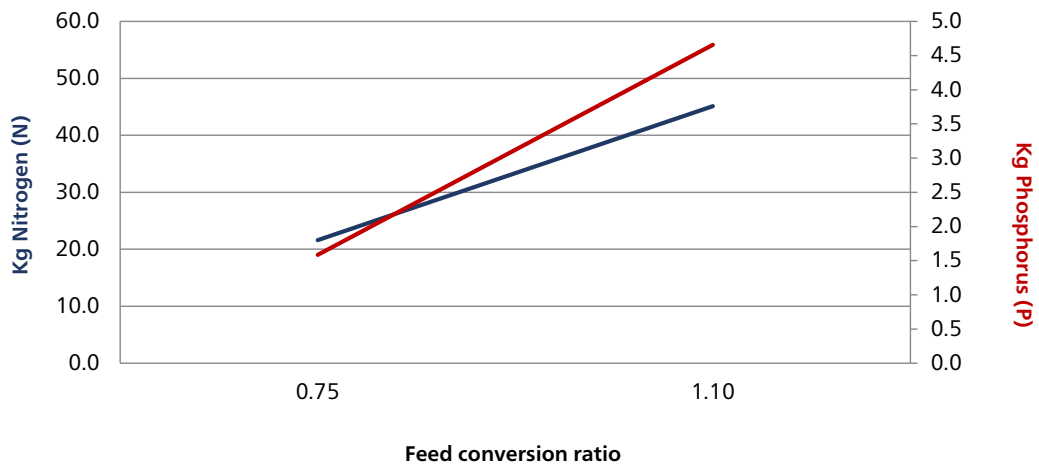
Analyses (%)		Sizes
Protein	42	3.0 mm
Fat	13	4.5 mm
Crude fibre	2.6	6.0 mm
Ash	6.7	8.0 mm
Total P	0.88	

Vitamins added	
Vitamin A (IE/kg)	10000
Vitamin E (mg/kg)	200
Vitamin C (stable) (mg/kg)	250

Energy (MJ/kg)	
Gross Energy	20.5
Digestible Energy	15.7

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive systems
- Good performance
- Very palatable
- Optical feeding control



COMPOSITION:

Analyses (%)

Protein	37
Fat	10
Crude fibre	1.6
Ash	6.5
Total P	1.09

Sizes

2.0 mm

Vitamins added

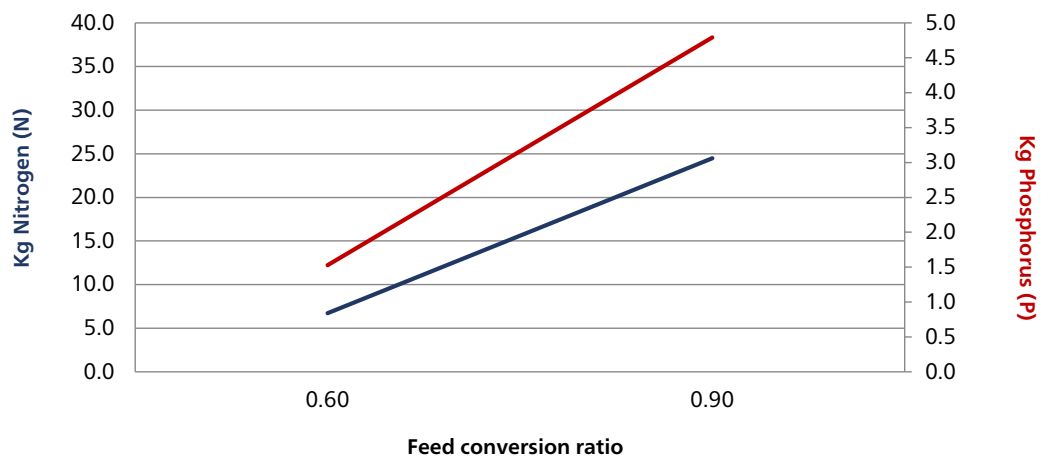
Vitamin A (IE/kg)	12000
Vitamin E (mg/kg)	240
Vitamin C (stable) (mg/kg)	300

Energy (MJ/kg)

Gross Energy	19.5
Digestible Energy	16.6

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Fast and efficient growth
- Very palatable
- High water quality
- Optical feeding control



COMPOSITION:

Analyses (%)

Protein	42	Sizes 4.5 mm
Fat	13	
Crude fibre	2.0	
Ash	7.2	
Total P	1.01	

Vitamins added

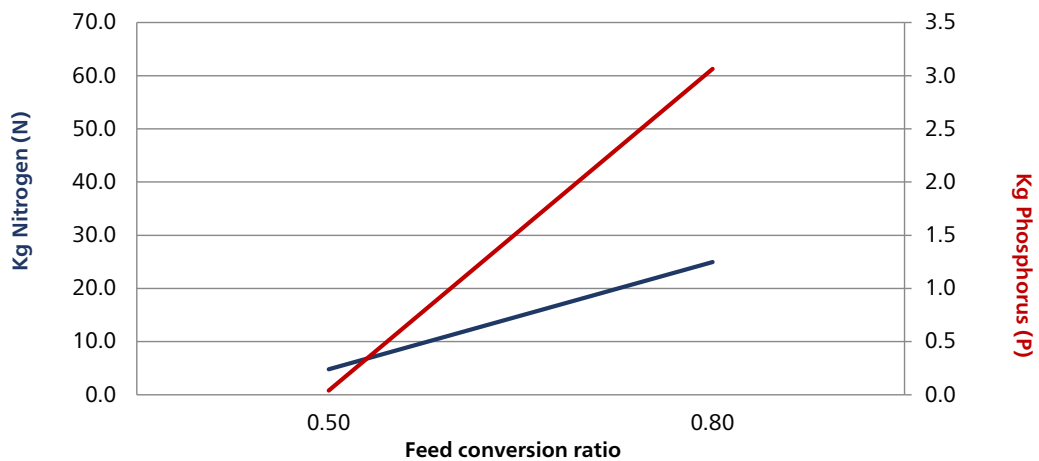
Vitamin A (IE/kg)	10000
Vitamin E (mg/kg)	200
Vitamin C (stable) (mg/kg)	250

Energy (MJ/kg)

Gross Energy	20.1
Digestible Energy	17.5

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Semi-intensive systems
- Good performance
- Very palatable
- Optical feeding control



COMPOSITION:

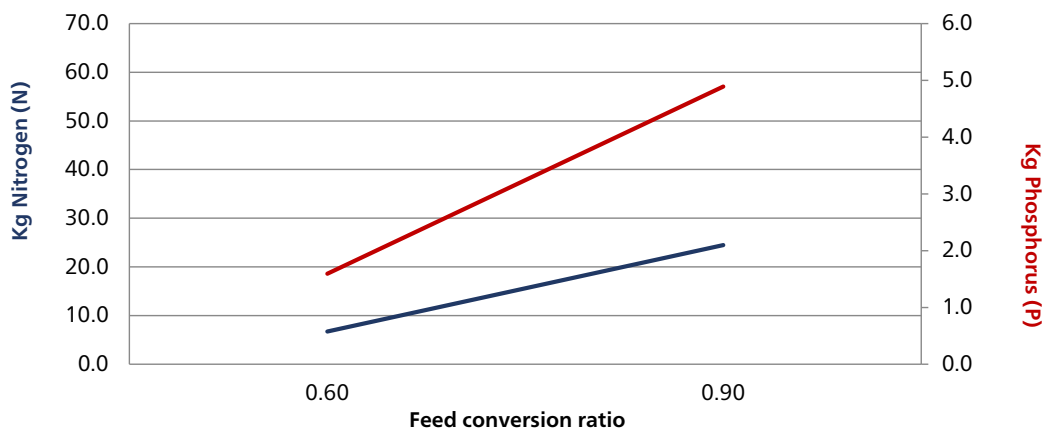
Analyses (%)		Sizes
Protein	37	3.0 mm
Fat	10	4.5 mm
Crude fibre	2.4	
Ash	7.1	
Total P	1.10	

Vitamins added	
Vitamin A (IE/kg)	10000
Vitamin E (mg/kg)	200
Vitamin C (stable) (mg/kg)	250

Energy (MJ/kg)	
Gross Energy	19.4
Digestible Energy	16.0

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.

- Broodstock diet
- Optimal egg development
- Increased level of vitamin c (stable vitamin c)
- High egg quality and fry survival



COMPOSITION:

Analyses (%)

		Sizes
Protein	48	9.0 mm
Fat	15	
Crude fibre	1.2	
Ash	9.4	
Total P	1.46	
Astaxanthin (mg/kg)	40.0	

Vitamins added

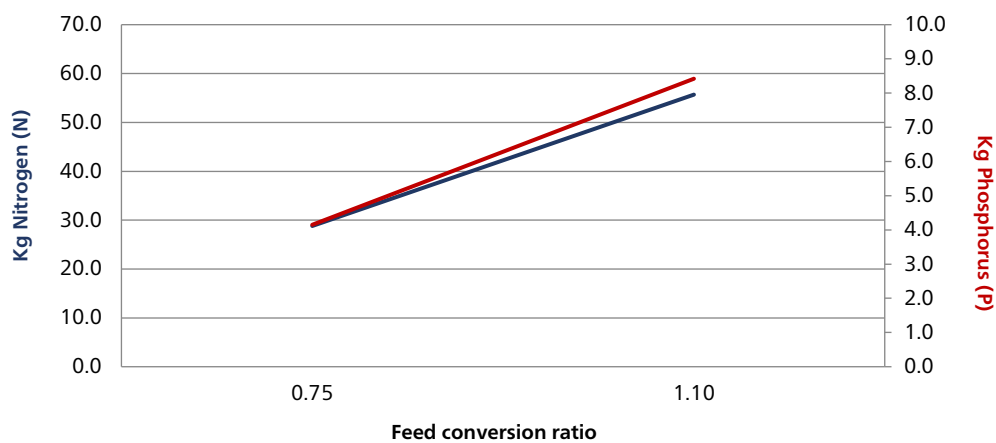
Vitamin A (IE/kg)	21000
Vitamin E (mg/kg)	430
Vitamin C (stable) (mg/kg)	1000

Energy (MJ/kg)

Gross Energy	20.7
Digestible Energy	19.0

ECOLOGICAL FIGURES:

Discharge per 1000 kg production



The values of the nutrients and vitamins are from the time of writing.

These values can vary due to natural variation in the ingredients. We reserve the right to change our recipe.

For the exact values we refer to the label.