

2021

# 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



Designed for Recirculating Aquaculture Systems (RAS)



Floating feed



Sustainable fishfeed



Semi-floating feed



With astaxanthine



Free from land animal protein



Low nitrogen and phosphorus emission



High digestibility



Improved resistance



Omega-3 fatty acids



**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.

IMPROVED  
INTESTINAL  
FUNCTION

## 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.

IMPROVED  
PERFORMANCE

## AQUATE™

ORGANIC  
MINERALS  
TOTAL  
REPLACEMENT  
TECHNOLOGY™

## ACTIGEN®

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

HELPS  
MAINTAIN  
THE IMMUNE  
SYSTEM



**Alltech®** COPPENS

**Feeding protocol for African catfish fry:**

The fry are fed to near satiation ( $\geq 5,5$  %BM/day)

This feeding advice is a guideline only based on optimal water quality and a water temperature of 27-28 °C

Feeding days	Average weight (g)	Feed size	Feed type
1	0	Live feed	Artemia
2	0	Live feed	Artemia
3	0	90% artemia + 10% 0.2-0.3	Artemia + Essence
4	0	75% artemia + 25% 0.2-0.3	Artemia + Essence
5	0	50% artemia + 50% 0.2-0.3	Artemia + Essence
6	0	75% 0.2-0.3 + 25% artemia	Essence + Artemia
7	0	90% 0.2-0.3 + 10% artemia	Essence + Artemia
8	0	95% 0.2-0.3 + 5% artemia	Essence + Artemia
9	0	75% 0.2-0.3 + 25% 0.3-0.5	Essence + Advance
10	0	50% 0.2-0.3 + 50% 0.3-0.5	Essence + Advance
11	0	25% 0.2-0.3 + 75% 0.3-0.5	Essence + Advance
12	0	0.3-0.5	Advance
13	0	0.3-0.5	Advance
14	0	0.3-0.5	Advance
15	0	0.3-0.5	Advance
16	0	0.3-0.5	Advance
17	0	0.3-0.5	Advance
18	0	0.3-0.5	Advance
19	0	0.3-0.5	Advance
20	1	0.3-0.5	Advance
21	1	0.5-0.8	Advance
22	1	0.5-0.8	Advance
23	1	0.5-0.8	Advance
24	1	0.5-0.8	Advance
25	1	0.5-0.8	Advance
26	1	0.5-0.8	Advance
27	1	0.5-0.8	Advance
28	1	0.5-0.8	Advance
29	2	0.5-0.8	Advance
30	2	0.5-0.8	Advance
31	2	0.8-1.2	Advance
32	2	0.8-1.2	Advance
33	2	0.8-1.2	Advance
34	2	0.8-1.2	Advance
35	3	0.8-1.2	Advance
36	3	0.8-1.2	Advance
37	3	0.8-1.2	Advance
38	3	0.8-1.2	Advance
39	3	0.8-1.2	Advance
40	4	0.8-1.2	Advance
41	4	1	Start Premium
42	4	1	Start Premium
43	4	1	Start Premium
44	5	1	Start Premium
45	5	1	Start Premium
46	5	1	Start Premium
47	6	1	Start Premium
48	6	1	Start Premium
49	6	1.5	Start Premium
50	7	1.5	Start Premium
51	7	1.5	Start Premium
52	8	1.5	Start Premium
53	8	1.5	Start Premium
54	9	1.5	Start Premium
55	9	1.5	Start Premium
56	9	1.5	Start Premium
57	10	1.5	Start Premium

\* The actual feed rate must be based on the appetite of the fry.

\* The fry should ideally be fed 6 times per day e.g. 8.00 hr, 11.00 hr, 14.00 hr, 17.00 hr, 20.00 hr, 23.00 hr.

**Futtertabelle für Mast:**

Basierend auf optimaler Wasserqualität und einer Wassertemperatur von 26-28 °C

Futter Tagen	Fisch gewicht (g)	Feed level (%BW/day)	Futtergröße (mm)
0	10	5.62	1.5
1	11	5.59	1.5 + 2.0
2	12	5.57	1.5 + 2.0
3	13	5.55	2.0
4	15	5.51	2.0
5	16	5.47	2.0
6	18	5.44	2.0
7	19	5.40	2.0
14	35	4.99	2.0
21	58	4.48	3.0
28	90	4.04	3.0
35	132	3.61	3.0
42	184	3.16	4.5
49	242	2.74	4.5
56	305	2.37	4.5
63	372	2.08	4.5
70	441	1.87	4.5/6.0
77	514	1.70	4.5/6.0
84	589	1.57	4.5/6.0
91	669	1.50	4.5/6.0
98	754	1.43	4.5/6.0
105	845	1.36	4.5/6.0
112	940	1.30	4.5/6.0
119	1040	1.24	4.5/6.0
126	1144	1.18	4.5/6.0
133	1251	1.12	4.5/6.0
140	1361	1.06	4.5/6.0
147	1473	1.02	4.5/6.0
154	1589	0.97	4.5/6.0
161	1706	0.92	4.5/6.0
168	1826	0.89	4.5/6.0
175	1948	0.86	4.5/6.0
178	2000	0.84	4.5/6.0

\* Fütterungs empfehlung ist in % Biomasse/Tag.

\* Die Fütterungsempfehlung ist nur eine Richtlinie und sollte als solche verwendet werden.

- High performance
- High survival



### COMPOSITION:

#### Analyses (%)

		Sizes
Protein	56	0.2-0.3 mm
Fat	15	0.3-0.5 mm
Crude fibre	0.2	0.5-0.8 mm
Ash	13.0	0.8-1.2 mm
Total P	1.89	

#### Vitamins added

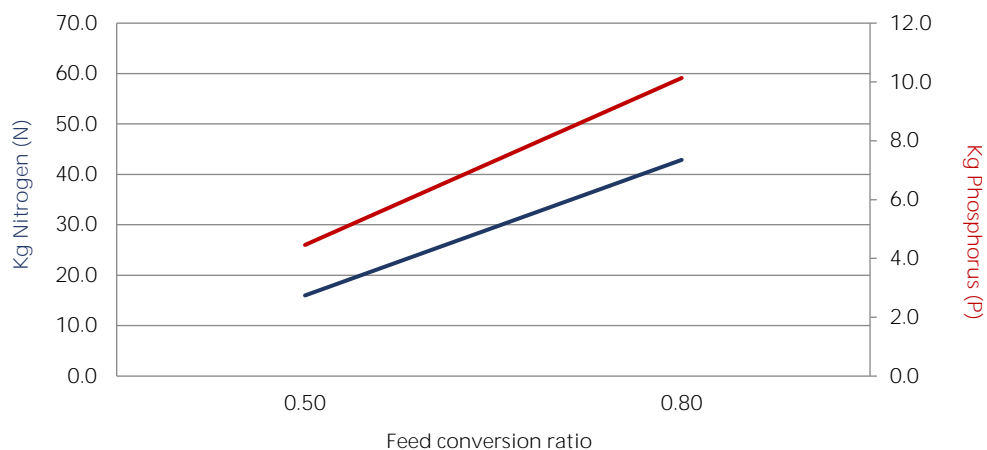
Vitamin A (IE/kg)	14000
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#### Energy (MJ/kg)

Gross Energy	20.8
Digestible Energy	18.3

### 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.

- Artemia replacer
- High survival
- Supports bone development



### COMPOSITION:

Analyses (%)		Sizes
Protein	45	0.2-0.3 mm
Fat	11	0.3-0.5 mm
Crude fibre	1.3	
Ash	8.4	
Total P	2.11	

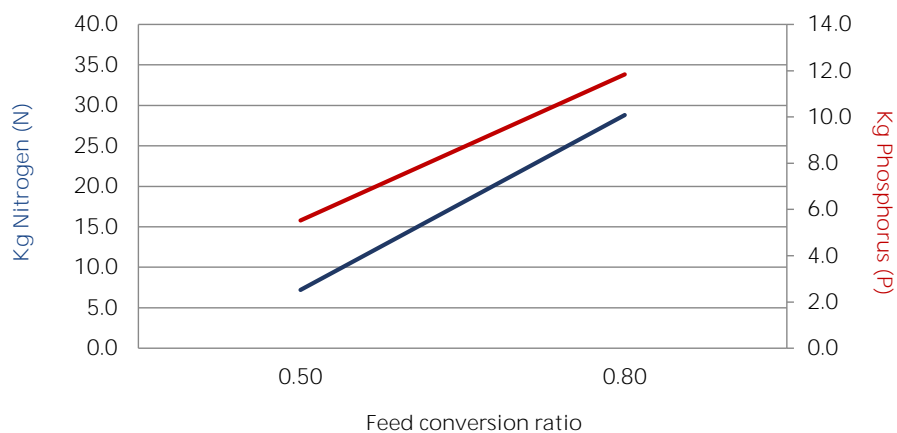
Vitamins added	
Vitamin A (IE/kg)	14000

Energy (MJ/kg)	
Gross Energy	19.9
Digestible Energy	14.7

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



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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	3.1	6.0 mm
Ash	7.0	
Total P	0.93	

#### Vitamins added

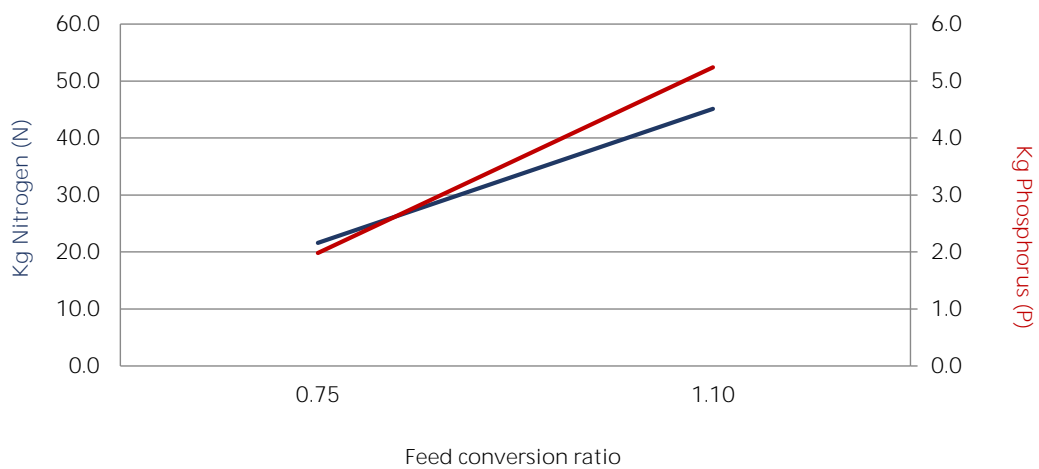
Vitamin A (IE/kg)	10000
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#### Energy (MJ/kg)

Gross Energy	19.9
Digestible Energy	16.5

### 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.

- High performance diet
- Very palatable
- Optical feeding control



### COMPOSITION:

#### Analyses (%)

Analyses (%)		Sizes
Protein	50	2.0 mm
Fat	15	
Crude fibre	0.8	
Ash	8.6	
Total P	1.21	

#### Vitamins added

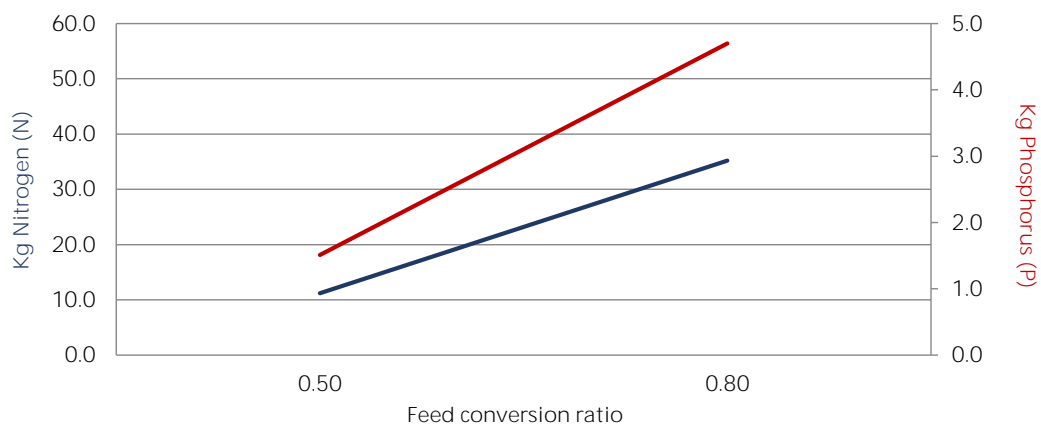
Vitamin A (IE/kg)	11000
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#### Energy (MJ/kg)

Gross Energy	21.1
Digestible Energy	19.1

### ECOLOGICAL FIGURES:

Discharge per 1000 kg production



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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	1.3	1.5
Ash	9.0	7.6
Total P	1.28	1.08

#### Vitamins added

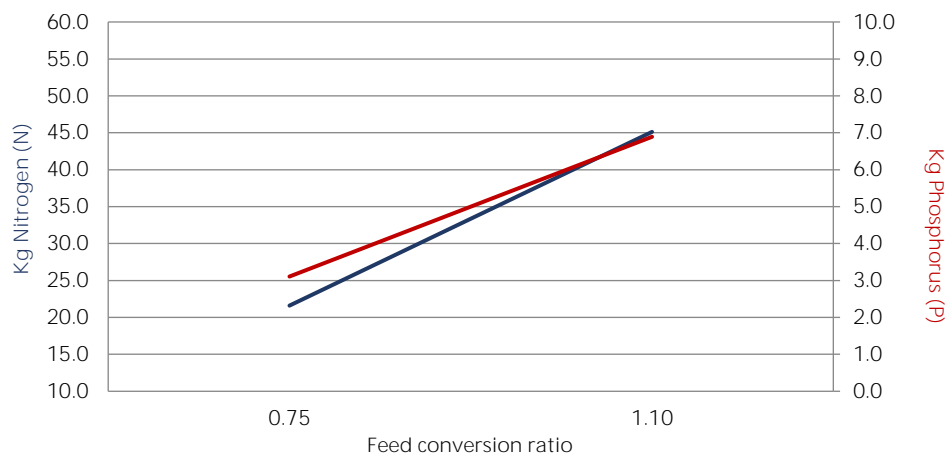
Vitamin A (IE/kg)	10000	10000
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#### Energy (MJ/kg)

Gross Energy	20.1	19.9
Digestible Energy	17.3	17.2

### 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.

- Mini pellet
- High protein level
- High performance



### COMPOSITION:

Analyses (%)		Sizes
Protein	54	1.0 mm
Fat	15	1.5 mm
Crude fibre	0.1	
Ash	10.4	
Total P	1.59	

### Vitamins added

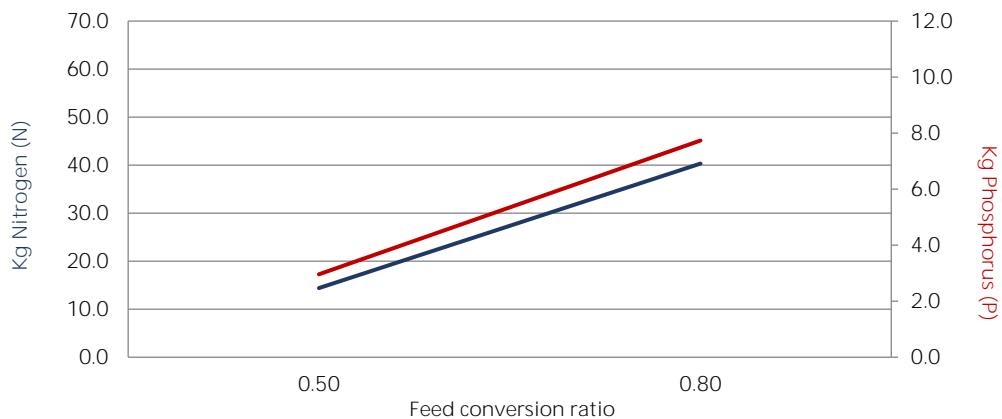
Vitamin A (IE/kg)	12000
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### Energy (MJ/kg)

Gross Energy	21.1
Digestible Energy	19.1

### 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
- High egg quality and fry survival



### COMPOSITION:

#### Analyses (%)

		Sizes
Protein	48	6.0 mm
Fat	15	9.0 mm
Crude fibre	1.2	
Ash	9.1	
Total P	1.43	
Astaxanthin (mg/kg)	40.0	

#### Vitamins added

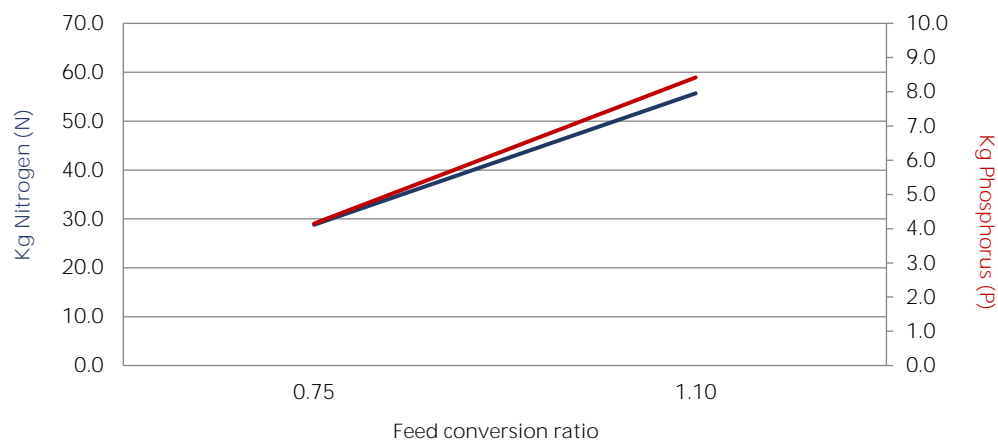
Vitamin A (IE/kg)	10000
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#### Energy (MJ/kg)

Gross Energy	20.2
Digestible Energy	18.0

### 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.