

Table S1. Proximate composition of ingredients used for common carp diet

Parameter	DDGS	Corn	Wheat	Fish meal	Sunflower meal
Humidity %	11.5	13.63	14.02	9.50	9.93
Protein %	27.56	7.54	8.07	39.9	40.6
Oil %	6.75	3.10			
Fiber %	10.13				22.6
Ash %	3.6			24.3	7.63
ADF %	16.6				
NDF %	38.3		26.80		
Starch %	1.57	66.66	68.8		
S %	0.47				
P %	0.7				
Fat %				8.9	1.76
N total				242	
mg/100g					
Histamine				12100	
ppm					
FFA				77.88	
Acidity				50.32	

Table S2. Determination of aerobic and anaerobic bacterial density cfu / g intestinal content of common carp

Parameter / treatment	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Mean
TNA D0	2360000	1980000	1680000	2210000	2980000	2242000
TNA D1	3320000	4210000	3020000	3820000	3930000	3660000
TNA D2	23900000	33100000	28900000	11200000	3700000	20160000
TNAN D0	1200	6000	320	220	1100	1768
TNAN D1	700	1200	1100	1700	2900	1520
TNAN D2	1100	2900	3300	700	6400	2880
TNC D0	620	600	200	110	483	402.6
TNC D1	522	394	647	891	1300	750.8
TNC D2	720	800	722	520	933	739
TNE D0	1414000	970000	705000	1016000	1192000	1059400
TNE D1	1762000	22980000	1812000	2330000	2200000	6216800
TNE D2	13623000	19529000	17975000	6977000	2220000	12064800

TNA - total number of aerobic microorganisms

TNAN - total number of anaerobic microorganisms

TNC - total number of sulfite-reducing clostridia

TNE - total number of Enterobacteriaceae

CFU/g= colony-forming unit per gram