

Table S1. UVI recordings taken during the UV-carotenoid study

Tank	Treatment	Month 0				Month 3				Month 6				Month 9			
		A	B	C	Mean	A	B	C	Mean	A	B	C	Mean	A	B	C	Mean
1	Standard/-UV	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
2	Standard/+UV	1.2	1.0	1.1	1.1	0.9	0.7	0.6	0.7	1.0	0.8	1.0	0.9	0.7	0.4	0.6	0.6
3	Enhanced/-UV	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1
4	Enhanced/+UV	1.0	0.9	1.0	1.0	0.9	0.8	0.7	0.8	0.9	0.6	0.9	0.8	0.7	0.5	0.4	0.5
5	Standard/-UV	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1
6	Standard/+UV	0.8	0.8	0.9	0.8	0.9	0.6	1.0	0.8	0.9	0.8	0.9	0.9	0.6	0.5	0.6	0.6
7	Enhanced/-UV	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
8	Enhanced/+UV	0.9	0.8	0.9	0.9	0.7	0.7	0.5	0.6	1.0	0.7	1.0	0.9	0.8	0.7	0.8	0.8
9	Standard/-UV	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1
10	Standard/+UV	0.8	0.7	0.8	0.8	0.7	0.7	0.5	0.6	0.9	0.7	0.9	0.8	0.5	0.3	0.5	0.4
11	Enhanced/-UV	0.1	0.1	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
12	Enhanced/+UV	1.1	1.1	1.2	1.1	0.9	0.9	0.7	0.8	1.0	0.7	0.9	0.9	0.7	0.4	0.5	0.5
Mean	Standard/-UV				0.04				0.04				0.06				0.06
	Standard/+UV				0.90				0.73				0.88				0.52
	Enhanced/-UV				0.04				0.07				0.07				0.04
	Enhanced/+UV				0.99				0.76				0.86				0.61

Table S2. Nutrobal ingredients

Calcium carbonate, Dextrose, Dicalcium phosphate, Sodium chloride	
ADDITIVES PER KG:	
Aminoacids:	
L-lysine-monohydrochloride 3.2.3	mg 79,000
Vitamins:	
Vitamin A 3a672a	IU 600,000
Vitamin D3	IU 180,000
Vitamin E 3a700	IU 23,500
Choline chloride 3a890	mg 6,000
Vitamin C 3a300	mg 3,000
Niacinamide 3a315	mg 3,000
Vitamin B2	mg 720
Calcium D-Pantothenate 3a841	mg 651.9
Vitamin B1 3a821	mg 600
Vitamin B6 3a831	mg 360
Folic acid 3a316	mg 180
Vitamin K3 3a711	mg 50
Vitamin B12	mg 0.145
Biotin 3a880	mg 1.2
Vitamin D3	IU 180,000
Traces elements:	
Coated granulated cobalt (II) carbonate 3b304 (Cobalt)	mg 50
Calcium iodate anhydrous 3b202 (Iodium)	mg 50
Sodium selenito 3b801 (Selenium)	mg 5
Copper(II) sulphate pentahydrate 3b405 (Copper)	mg 751
Iron(II) sulphate monohydrate 3b103 (Iron)	mg 3,000
Manganous sulphate monohydrate 3b503 (Manganese)	mg 1,750
Zinc sulphate monohydrate 3b605 (Zinc)	mg 3,000
Anti cacking agents: Silicic acid, precipitated and dried E551a mg 1,000	
Calcium 20.8% - Sodium 0.22% - Phosphorous 0.45%	

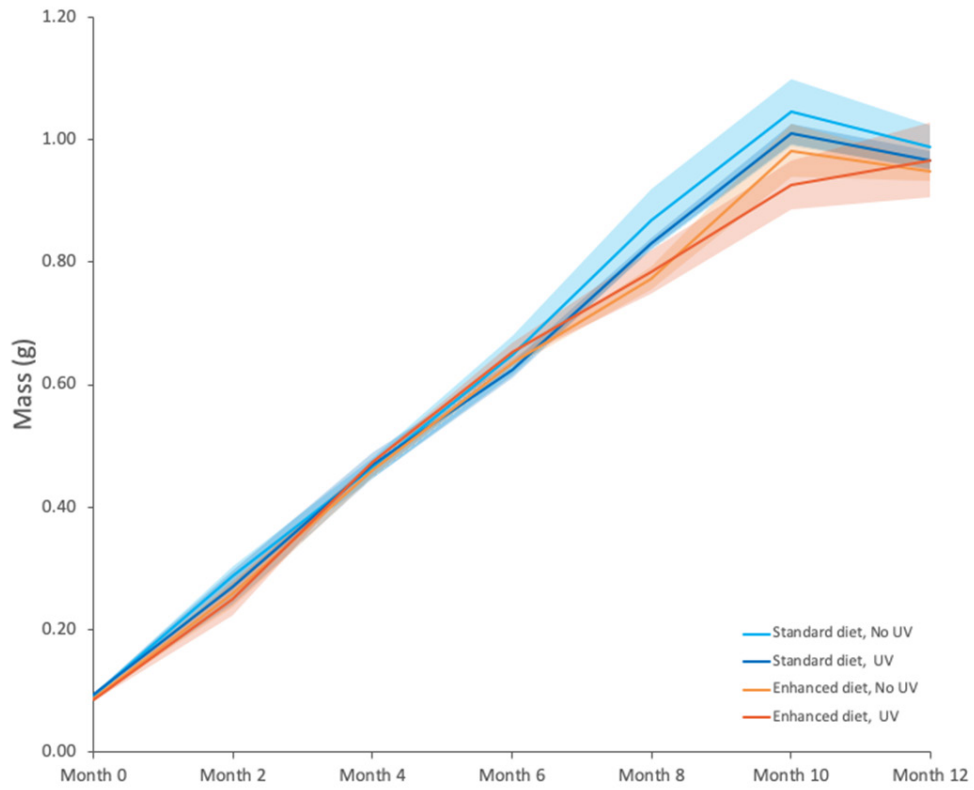


Figure S1. UV-carotenoid study: Mass

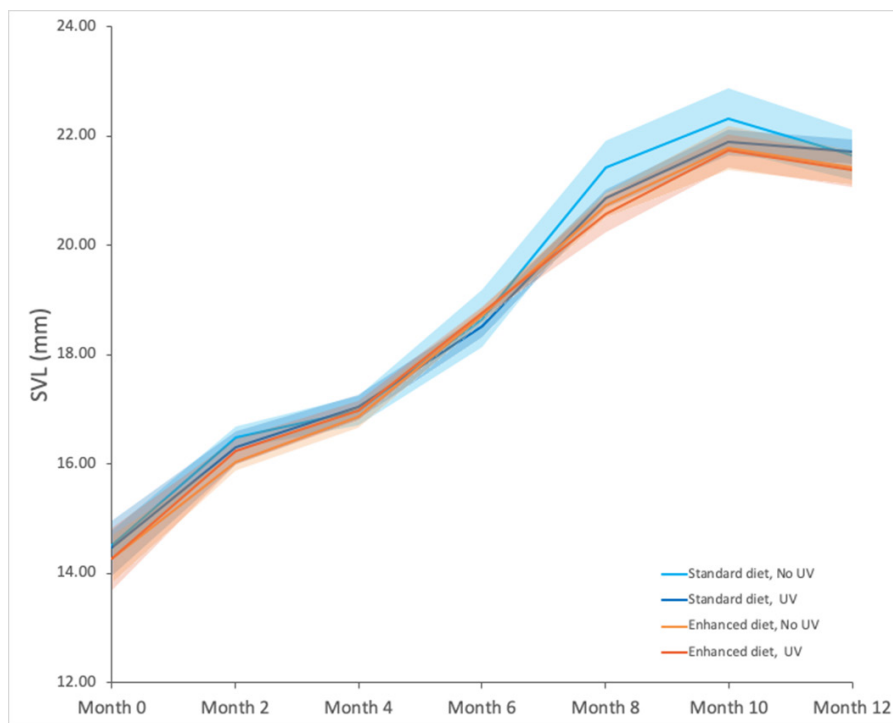


Figure S2. UV-carotenoid study: Snout to Vent Length (SVL)

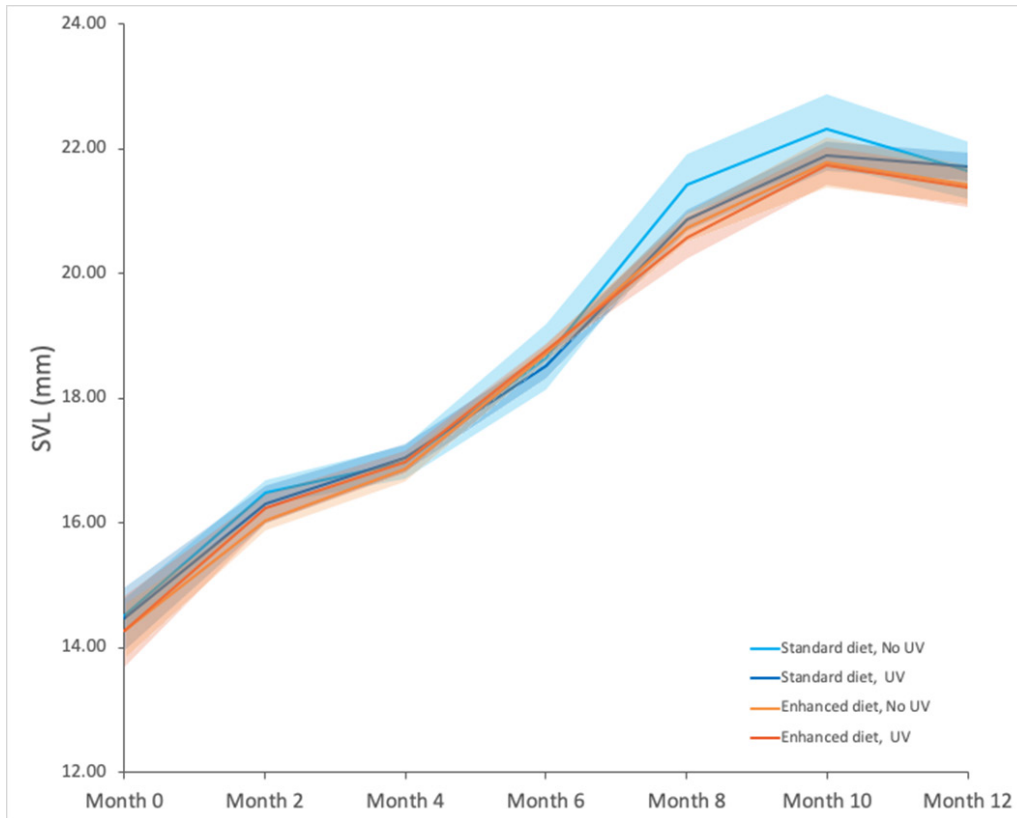


Figure S3. Carotenoid profile: Mass

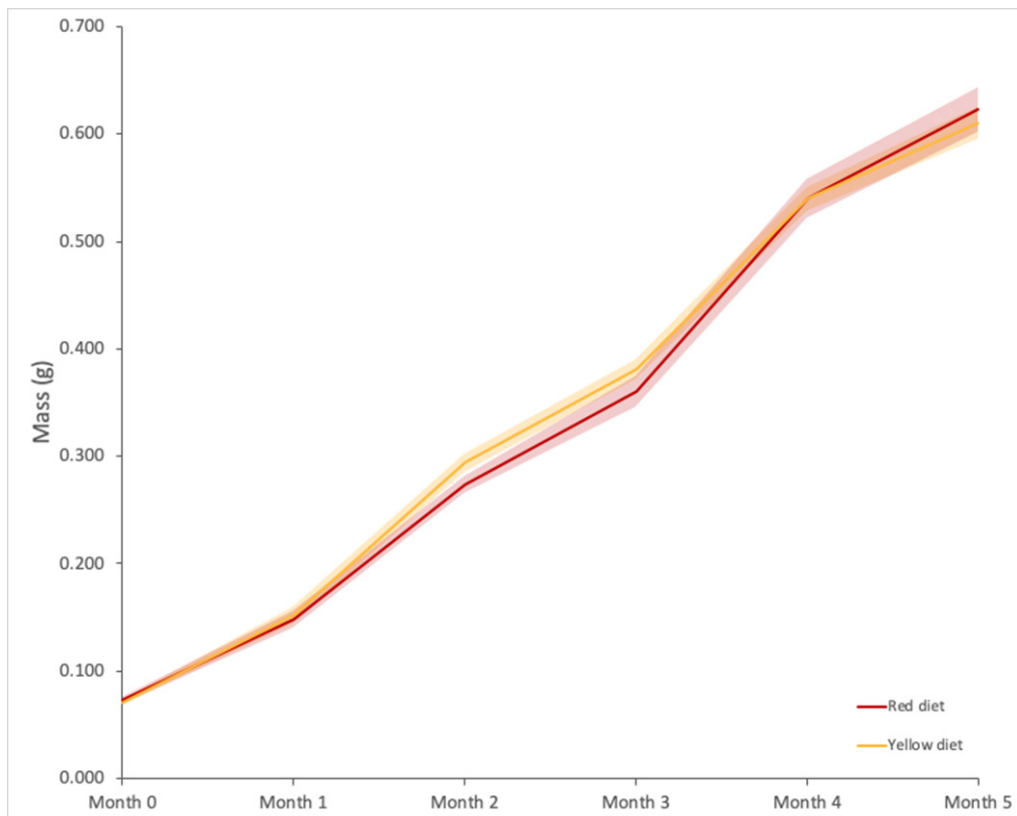


Figure S4. Carotenoid profile: snout-to-vent length (SVL)