

Figure S1. Time evolution (0–27 days) of yolk astaxanthin concentration according to the dietary treatments: control (●), experimental E1(■), experimental E2 (▲) and experimental E3 (×). C—control diet; E1—diet supplemented with 6% linseed meal + 2% dried kapia pepper; E2—diet supplemented with 6% linseed meal + 2% dried sea buckthorn pomace; E3—diet supplemented with 6% linseed meal + 2% dried carrot.

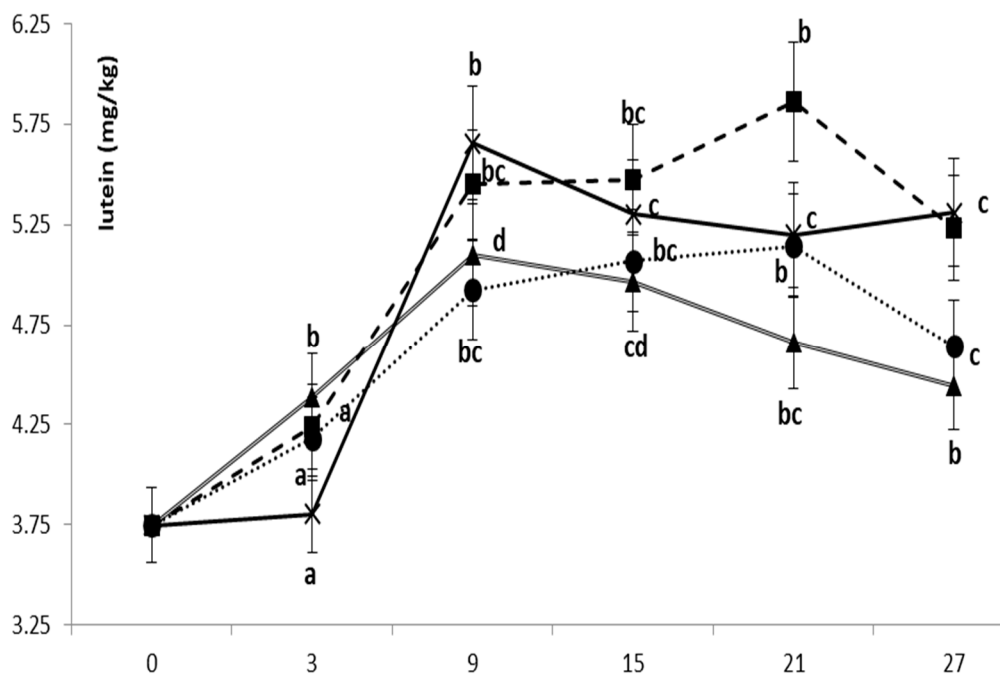


Figure S2. Time evolution (0–27 days) of yolk lutein concentration according to the dietary treatments: control (●), experimental E1(■), experimental E2 (▲) and experimental E3 (×). C—control diet; E1—diet supplemented with 6% linseed meal + 2% dried kapia pepper; E2—diet supplemented with 6% linseed meal + 2% dried sea buckthorn pomace; E3—diet supplemented with 6% linseed meal + 2% dried carrot.

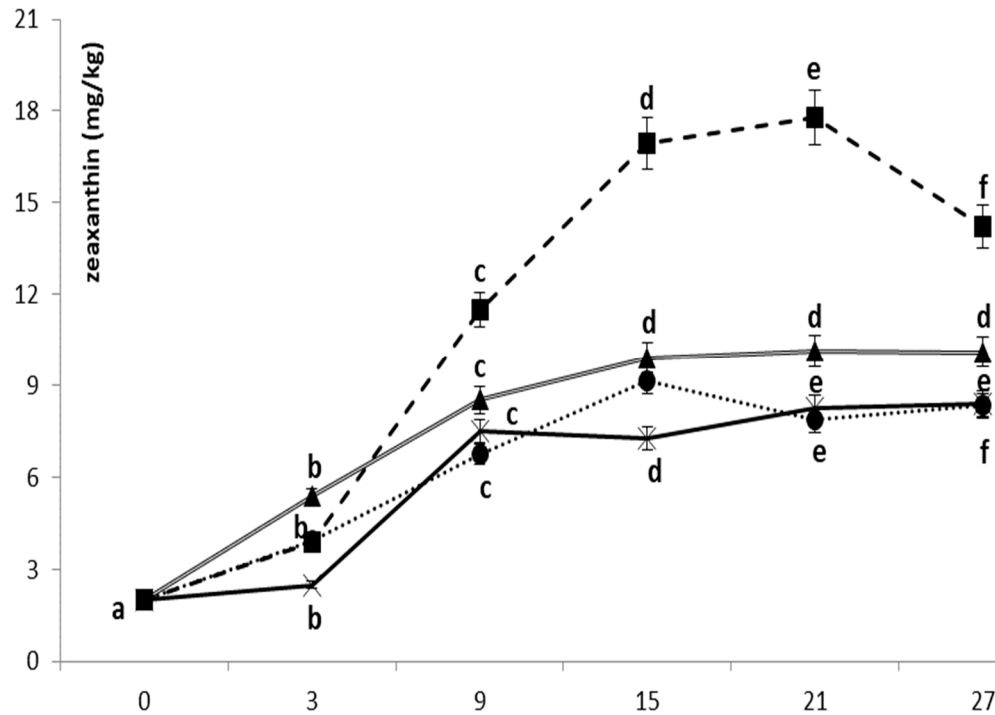


Figure S3. Time evolution (0–27 days) of yolk zeaxanthin concentration according to the dietary treatments: control (●), experimental E1 (■), experimental E2 (▲) and experimental E3 (×). C—control diet; E1—diet supplemented with 6% linseed meal + 2% dried kapia pepper; E2—diet supplemented with 6% linseed meal + 2% dried sea buckthorn pomace; E3—diet supplemented with 6% linseed meal + 2% dried carrot.

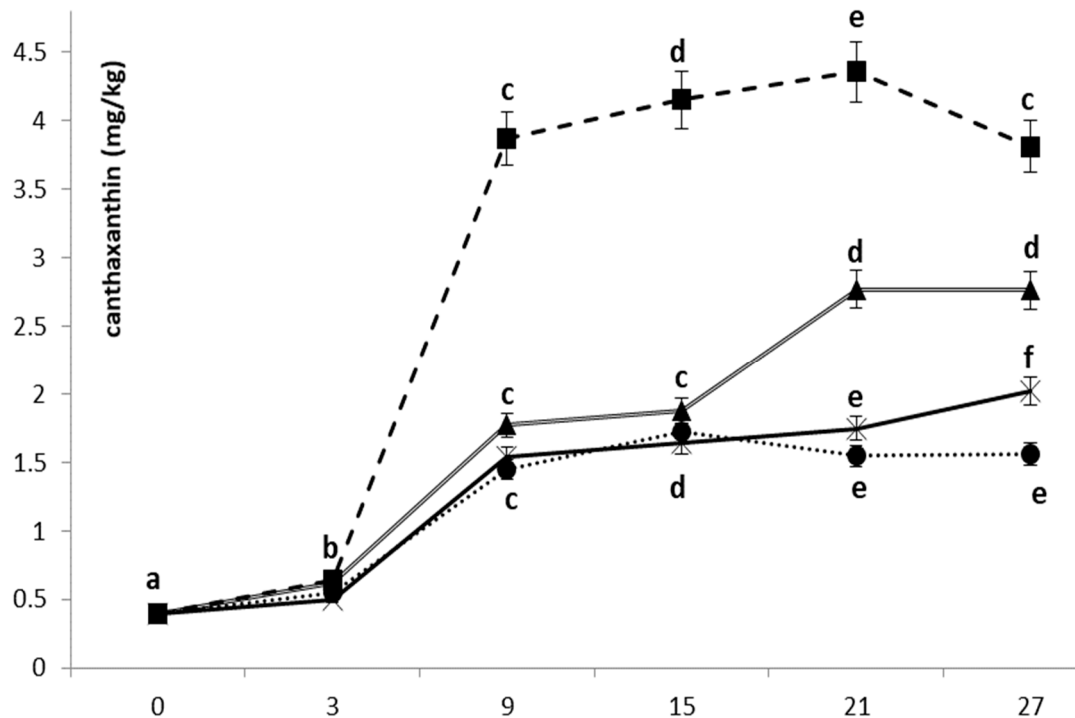


Figure S4. Time evolution (0–27 days) of yolk canthaxanthin concentration according to the dietary treatments: control (●), experimental E1 (■), experimental E2 (▲) and experimental E3 (×). C—control diet; E1—diet supplemented with 6% linseed meal + 2% dried kapia pepper; E2—diet supplemented with 6% linseed meal + 2% dried sea buckthorn pomace; E3—diet supplemented with 6% linseed meal + 2% dried carrot.

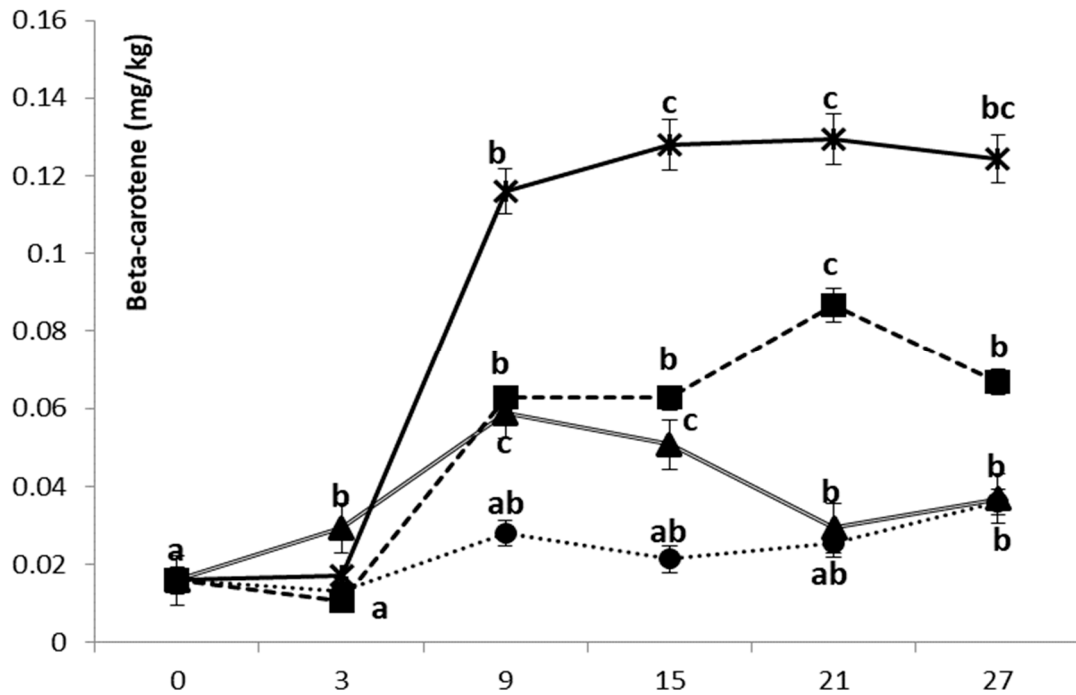


Figure S5. Time evolution (0–27 days) of yolk beta-carotene concentration according to the dietary treatments: control (●), experimental E1(■), experimental E2 (▲) and experimental E3 (×). C—control diet; E1—diet supplemented with 6% linseed meal + 2% dried kapia pepper; E2—diet supplemented with 6% linseed meal + 2% dried sea buckthorn pomace; E3—diet supplemented with 6% linseed meal + 2% dried carrot.

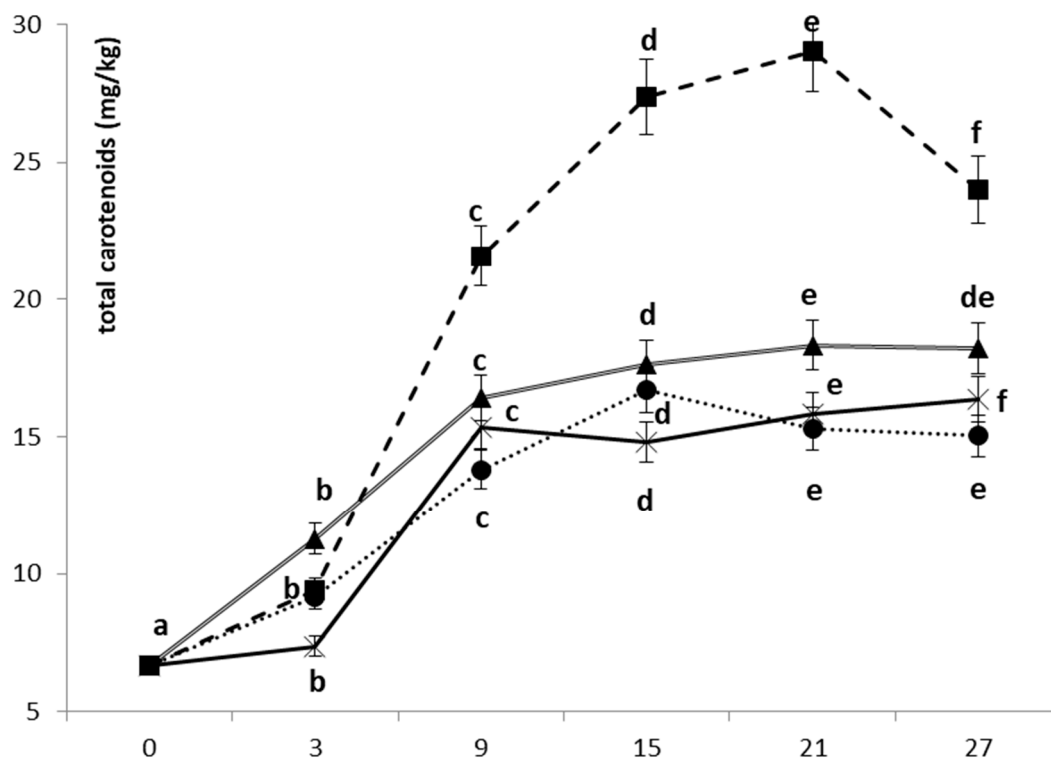


Figure S6. Time evolution (0–27 days) of yolk total carotenoids concentration according to the dietary treatments: control (●), experimental E1(■), experimental E2 (▲) and experimental E3 (×). C—control diet; E1—diet supplemented with 6% linseed meal + 2% dried kapia pepper; E2—diet supplemented with 6% linseed meal + 2% dried sea buckthorn pomace; E3—diet supplemented with 6% linseed meal + 2% dried carrot.