

## Determination of Some Biochemical Values for the *Liza klunzingeri* in Coastal Water of Persian Gulf

**Authors :** Majid Afkhami, Maryam Ehsanpour

**Abstract :** Serum biochemical can be used for monitoring any changes in the physiological condition of fish and quality of waters. The aim of this paper was to determine of plasma sugar, triglycerides, cholesterol, iron, ALP (alkaline phosphatase) and LDH (lactate dehydrogenase) levels of *Liza klunzingeri* in Persian Gulf. Blood sample was collected from the caudal vessel with syringes coated with sodium heparin. Biochemical values were: sugar  $110.37 \pm 28.46$  mg/dl, triglycerides  $96.82 \pm 23.40$  mg/dl, cholesterol  $177.28 \pm 40.75$  mg/dl, iron  $104.74 \pm 19.08$  mg/dl, ALP  $117.62 \pm 34.49$  u/l, LDH  $1613.00 \pm 345.34$  u/l. A significant positive correlation ( $P < 0.01$ ) was found between triglycerides and sugar. Triglycerides had a significant and positive relationship with cholesterol ( $P < 0.01$ ). ALP also had a significant and positive relationship with sugar ( $P < 0.01$ ) and triglycerides ( $P < 0.05$ ). LDH correlated positively with sugar, cholesterol, triglycerides ( $P < 0.01$ ) and ALP ( $P < 0.05$ ). The results revealed reverse correlation between iron with cholesterol, sugar, triglycerides, ALP, and LDH ( $P < 0.01$ ). This study represents a contribution to the referential biochemical values of the *L. klunzingeri*. In further studies, the established reference ranges might be useful for the health assessment of this species.

**Keywords :** *Liza klunzingeri*, blood, ALP, LDH

**Conference Title :** ICFAEST 2014 : International Conference on Fisheries, Aquaculture Economics and Seafood Trade

**Conference Location :** Barcelona, Spain

**Conference Dates :** October 27-28, 2014