

عنوان مقاله:

Supporting effect of diverse doses of calcium supplementary to control morbid condition due to poisoning with zinc in
Oncorhynchus mykiss larvae

محل انتشار:

اولین کنگره بین المللی مدیریت بهداشتی و بیماریهای آبزیان (سال: 1387)

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خلاصه مقاله:

Objective: Zinc is known as a natural trace element for feeding and has a poisoning effect in overdose usage for fishes. This research was conducted on the effect of food supplementary containing calcium in fishes for prevention (control) of poisoning with zinc. Method & Materials: In this study, *Oncorhynchus mykiss* larvae with approximately 6 grams weight, in 4 random groups, in 25 fiberglass tankers, and in vitro conditions, was reared. Afterward, 3 mM zinc (zinc chloride) was added to the water of all groups. Then, in the water of treatment group with supplementary calcium, different doses (2 mM, 4 mM and 6 mM) of calcium chloride were added. Afterward, in different days, blood was collected and the amount of zinc and calcium in plasma was measured. Least amount of calcium in different days was 6 mM. Results & Conclusion: According to this research, it could be suggested that approximately, calcium supplementary could be a good choice to control poisoning due to overdose zinc usage in salmon.

کلمات کلیدی:

Zinc, Calcium, *Oncorhynchus mykiss*

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