

1. Is the *ToxProtect64* applicable for freshwater and seawater?
 - a. The current *ToxProtect64* is developed for the freshwater application. It can be used for seawater, but we have to exchange some components. Additionally, the turbidity has to be low enough, because the *ToxProtect64* is mainly designed for clear water (≤ 40 NTU). Therefore there is the opportunity to filter the water.

2. In which temperature range is the *ToxProtect64* usable?
 - a. The temperature range depends on the chosen fish. However, the maximum temperature is 30°C, because fishes will not survive at higher temperatures and the oxygen concentration would be too low.

3. Is it possible to determine the concentration of a toxin with the *ToxProtect64*?
 - a. No, this is not possible, because there are many effects which influence the intensity of changing in swimming behaviour, e.g. hardness and conductivity of the water, chelators (could mask toxins) and the content of oxygen. Additionally, there are many different substances which don't affect the swimming activity and mortality in such different ways.

4. Is it possible to install an in-line filter?
 - a. Yes this is possible, but the water in water works is clean enough. Some customers have got basins to setting down turbidity components. It is also possible to install cross flow filters.

5. Do you have a video about the *ToxProtect64*
 - a. Not now, but we can do it and hand in later on the website.

6. Do the customers have their own culture of fishes?
 - a. Some of our customers have their own fish culture and some are buying the fishes from research stations.

7. How does the instrument handle times where all fish go to the top of tank during feeding? False alarms?
 - a. Feeding only takes a short time. During this time, the alarm verification is stopped. The fishes turn back to normal behaviour after feeding.

8. How long is the duration of alarm verification procedure?
 - a. The duration of alarm verification procedure is approx. 10 to 15 minutes. However, it depends on the fish species. Coldwater fishes react slower than warm water fishes. But we can help you with alarm settings.

9. How long can fish remain in the *ToxProtect64* and still remain effective or sensitive enough for alarm purposes?

- a. It depends on the fish species and on the fact that we want to measure acute toxicity. The experiences of bbe and our customers are approx. 3 month. Jung fishes are more sensitive.

Again, thank you very much for your attendance and the shown interest in our bbe webinars.

We are looking forward to meet you at our next webinar!

Best regards,

Your bbe-team

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