

## ABSTRAK

### UJI HOMOGENITAS DAN UJI STABILITAS PATOGEN IKAN *Aeromonas hydrophila* (Stanier, 1943) DALAM MEDIA *TRANSPORT* *AMIES*

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Kegiatan budi daya ikan air tawar terancam oleh infeksi penyakit yang disebabkan oleh *Aeromonas hydrophila*. Isolat bakteri ini sering digunakan sebagai bahan praktikum, penelitian, kontrol kualitas di laboratorium, dan plasma nutfah. Penelitian mengenai pengaruh durasi transportasi isolat bakteri, penentuan suhu dan waktu inkubasi isolat *Aeromonas hydrophila* dengan media *transport amies* untuk menguji stabilitas dan homogenitasnya masih sangat terbatas. Penelitian ini dilakukan untuk mengevaluasi homogenitas dan stabilitas isolat *Aeromonas hydrophila* yang dipreservasi di media *transport amies* setelah ditransportasikan dengan perbedaan durasi transportasi, suhu, dan waktu inkubasi. Isolat yang digunakan adalah ATCC *Aeromonas hydrophila* 7966 dan isolat lokal I/685. Penelitian dilakukan di Balai Pengujian Kesehatan Ikan dan Lingkungan (BPKIL) Serang. Parameter pada penelitian ini adalah uji homogenitas dan uji stabilitas dengan memperhatikan viabilitas serta deteksi *Aeromonas hydrophila*. Hasil yang didapatkan adalah 56 bahan uji dari dua isolat utama 100% homogen, 100% stabil setelah ditransportasikan ke BBPBAT Sukabumi Jawa Barat, BPBAT Mandiangin Kalimantan Selatan, BPBAP Aceh, serta disimpan pada suhu 4°C, 25°C, dan 37°C selama empat minggu.

Kata kunci: *Aeromonas hydrophila*, media *transport amies*, homogenitas, stabilitas

## **ABSTRACT**

### **THE HOMOGENEITY TEST AND STABILITY TEST FOR FISH PATHOGEN OF *Aeromonas hydrophila* (Stanier, 1943) IN AMIES TRANSPORT MEDIUM**

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Fish farming activities in fresh water was threat by diseases caused by *Aeromonas hydrophila*. This bacterial isolate is often used as material for practical work, research, quality control in laboratory, and germplasm. Research on the duration of transportation of bacterial isolates, optimal temperature and incubation period for *Aeromonas hydrophila* isolates with amies transport medium to test its stability and homogeneity are still limited. This research was conducted to evaluated homogeneity and stability of *Aeromonas hydrophila* isolates preserved in the amies transport medium after transportation with differences in transportation duration, temperature, and incubation time. The isolates used were ATCC *Aeromonas hydrophila* 7966 and local isolate I/685. The research was conducted at Fish and Environmental Health Testing Center (BPKIL) Serang. The parameters in this study were homogeneity and stability tests taking into account the viability and detection of *Aeromonas hydrophila*. The results obtained were that 56 test materials from the two main isolates were 100% homogeneous, 100% stable after transported to BBPBAT Sukabumi West Java, BPBAT Mandiangin South Kalimantan, BPBAP Aceh, and stored at 4°C, 25°C and 37°C for four weeks.

**Keyword:** *Aeromonas hydrophila*, amies transport medium, homogeneity, stability