

# Pengaruh pemberian berbagai konsentrasi kuning telur ayam kampung terhadap kualitas spermatozoa ikan koi (*Cyprinus carpio*, Linnaeus 1758) 48 jam pascakriopreservasi = Various effect of free range chicken egg yolk concentration to spermatozoa quality of koi fish (*Cyprinus carpio* Linnaeus 1758) 48 hours post cryopreservation

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## Abstrak

Penelitian pengaruh pemberian berbagai konsentrasi kuning telur ayam kampung terhadap kualitas spermatozoa ikan koi *Cyprinus carpio*, Linnaeus 1758 48 jam pascakriopreservasi dilakukan untuk mengetahui konsentrasi optimum kuning telur ayam kampung yang dapat digunakan untuk menjaga kualitas spermatozoa ikan koi. Semen ikan koi diperoleh dengan cara stripping pada bagian urogenital ikan koi. Evaluasi semen ikan koi dilakukan secara makroskopis volume, pH, dan warna semen dan mikroskopis persentase motilitas, viabilitas, dan abnormalitas.

Penelitian menggunakan larutan pengencer metanol 10 dan berbagai konsentrasi kuning telur ayam kampung dengan perbandingan semen dan pengencer 1:4. Perlakuan yang diberikan yaitu kuning telur ayam kampung dengan konsentrasi 0 kontrol, 5, 10, 15, 20, dan 25. Pembekuan dilakukan pada suhu -34 oC selama 48 jam. Data yang diperoleh menunjukkan distribusi normal dan bervariasi homogen setelah dilakukan uji normalitas Shapiro-Wilk dan uji homogenitas Levene. Hasil uji Analisis Variansi ANAVA satu arah menunjukkan pengaruh perlakuan kuning telur ayam kampung.

*Research about various effect of free range chicken egg yolk concentration to spermatozoa quality of Koi Fish *Cyprinus carpio*, Linnaeus 1758 48 hours post cryopreservation was done to know optimum concentration of free range chicken egg yolk that can still keep the quality of koi fish spermatozoa. Milt sperm koi fish was collected by stripping at urogenital area of the fish. Koi fish sperm evaluation was done macroscopically volume, pH, milt color and microscopically percentage of motility, viability, and abnormality of spermatozoa.*

The research was using dilution solution methanol 10 and various concentrations of free range chicken egg yolk with ratio 1 4. The given concentration of free range chicken egg yolk was 0 control, 5, 10, 15, 20, and 25. Freezing was done at 34 oC for 48 hours. The data obtained showed normal and homogenous after processed with the Shapiro Wilk normality test and Levene homogeneity test. The one factor ANOVA showed that various concentration of free range chicken egg yolk had effect.