

**PENGARUH PENAMBAHAN EKSTRAK DAUN SUNGKAI (*Peronema canescens*) DALAM PENGENCER TRIS KUNING TELUR TERHADAP KUALITAS SPERMATOZOA POST THAWING PADA SAPI BALI (*Bos sondaicus*)**

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**INTISARI**

Penelitian ini bertujuan untuk mengamati pengaruh penambahan ekstrak daun sungkai terhadap kualitas *semen* beku *post thawing* sapi Bali. Penelitian ini dilaksanakan pada bulan September sampai dengan Desember 2023 di Laboratorium Fisiologi dan Reproduksi Fakultas Peternakan UGM. Penelitian ini menggunakan 20 *straw semen* beku sapi Bali dari Balai Besar Inseminasi Buatan (BBIB), Singosari, Malang, Jawa Timur. Ekstrak daun sungkai ditambahkan pada *semen* yang telah di-*thawing* pada air hangat 37°C dengan lama *thawing* 30 detik di *waterbath*. Perlakuan terdiri dari, *semen*+0% ekstrak daun sungkai (PO) dan *semen*+0,05/100ml ekstrak ekstrak daun sungkai (P1). Penilaian *semen* dilakukan secara mikroskopis yang meliputi motilitas, viabilitas dan abnormalitas. Analisis data yang digunakan adalah Analisis Varians Pola Searah. Hasil penelitian menunjukkan bahwa level ekstrak daun sungkai berpengaruh nyata ( $P < 0,05$ ) terhadap motilitas, viabilitas, dan abnormalitas. Penambahan level ekstrak daun sungkai 0,05/100ml memberikan hasil terbaik pada motilitas ( $55,00 \pm 2,49\%$ ), viabilitas ( $61,00 \pm 2,44\%$ ), dan abnormalitas ( $2,50 \pm 1,08\%$ ) dibandingkan perlakuan lainnya. Disimpulkan bahwa penambahan ekstrak daun sungkai 0,05/100ml memberikan hasil lebih baik terhadap motilitas, viabilitas, dan abnormalitas *semen* beku *post thawing* sapi Bali.

(Kata kunci : Ekstrak daun sungkai, Kualitas *semen*, Sapi Bali, *Semen* beku)

**THE EFFECT OF SUNGKAI LEAF EXTRACT (*Peronema canescens*)  
ADDITION IN TRIS EGG YOLK EXTENDER ON THE POST-THAWING  
SPERMATOZOA QUALITY OF BALI CATTLE (*Bos sondaicus*)**

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**ABSTRACT**

This study aims to observe the effect of the addition of sungkai leaf extract on the quality of frozen *semen* post-thawing of Bali cattle. This study was conducted from September to December 2023 at the Physiology and Reproduction Laboratory of the Faculty of Animal Science, UGM. This study used 20 straws of frozen *semen* of Bali cattle from the Artificial Insemination Center (BBIB), Singosari, Malang, East Java. Sungkai leaf extract was added to the *semen* that had been thawed in warm water at 37°C with a thawing time of 30 seconds in a water bath. The treatments consisted of *semen* + 0% sungkai leaf extract (PO) and *semen* + 0.05 / 100ml of sungkai leaf extract (P1). Semen assessment was carried out microscopically which included motility, viability and abnormalities. The data analysis used was Analysis of Variance with One-Way Pattern. The results showed that the level of sungkai leaf extract had a significant effect ( $P < 0.05$ ) on motility, viability, and abnormalities. The addition of sungkai leaf extract level 0.05/100ml gave the best results on motility ( $55.00 \pm 2.49\%$ ), viability ( $61.00 \pm 2.44\%$ ), and abnormality ( $2.50 \pm 1.08\%$ ) compared to other treatments. It was concluded that the addition of sungkai leaf extract 0.05/100ml gave better results on motility, viability, and abnormality of frozen *semen post thawing* of Bali cattle.

Keywords: Bali cattle, Frozen *semen*, Semen quality, Sungkai leaf extract.