

**PENGARUH KEMASAN ALUMINIUM FOIL DAN LAMA SIMPAN
TERHADAP MOTILITAS SPERMATOZOA SEMEN BEKU
SAPI LIMOUSIN**

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INTISARI^{*}

Penelitian ini bertujuan untuk mengetahui pengaruh kemasan aluminium foil terhadap motilitas spermatozoa sapi Limousin. Penelitian ini telah dilaksanakan mulai tanggal 9 November sampai 12 November 2020 di Laboratorium Peternakan Universitas Mercu Buana Yogyakarta. Materi yang digunakan berupa semen beku sapi Limousin sebanyak 24 *ministraw*. Penelitian ini menggunakan Rancangan Acak Lengkap pola faktorial 2×4 dengan 2 perlakuan yaitu perlakuan pertama (wadah simpan dengan kemasan aluminium foil) dan perlakuan kedua (wadah simpan tanpa menggunakan kemasan aluminium foil) pada pengaruh waktu 0 jam, 2 jam, 4 jam dan 6 jam dengan 3 kali pengulangan, variabel yang diteliti adalah motilitas spermatozoa. Data dianalisis menggunakan *analysis of variance* (ANOVA) dilanjutkan dengan uji DMRT (*Duncan's New Multiple Range Test*). Hasil penelitian menunjukkan berbeda nyata ($P < 0,05$) baik pada perlakuan wadah maupun lama simpan. persentase motilitas spermatozoa pada kedua wadah simpan masih layak digunakan sampai 6 jam ($\geq 40\%$). persentase tersebut tetap dipertahankan oleh media simpan aluminium foil dengan persentase motilitas 71,67%. Sedangkan penyimpanan tanpa menggunakan aluminium foil memiliki persentase motilitas sperma yang lebih rendah yaitu sebesar 62,5%. Disimpulkan bahwa penyimpanan menggunakan aluminium foil lebih baik hingga jam ke 6 (71,67%).

Kata kunci : aluminium foil, lama simpan, motilitas, spermatozoa, semen beku.

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**THE EFFECT OF ALUMINIUM FOIL PACKAGING AND STORAGE
TIME ON FROZEN SEMEN SPERMATOZOON MOTILITY OF
LIMOUSINE BULL**

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ABSTRACT*)

This study aimed to determine the effect of aluminium foil packaging on the motility of Limousine bull spermatozoon. This research was conducted from November 9 – 12th 2020 at the Laboratory of Animal Husbandry at University of Mercu Buana Yogyakarta. The material used were 24 Limousine frozen semen ministraws. This study used a completely randomized design with 2x4 factorial pattern with 2 treatments, namely the first treatment (storage container with aluminium foil packaging) and the second treatment (storage container without using of aluminium foil packaging) on the effect of 0 hour, 2 hours, 4 hours and 6 hours, with 3 replications, the variable studied was spermatozoon motility. Data were analyzed using *analysis of variance* (ANOVA) followed by the DMRT (*Duncan's New Multiple Range Test*). The result showed significantly different ($P<0,05$) in both packaging and storage time. The percentage of spermatozoon motility in the two storage containers was still suitable for use up to 6 hours (40%). This percentage was retained by the aluminium foil storage media with a motility percentage of 71.67%. Whereas storage without using of aluminium foil has a lower percentage of sperm motility, which was 62.5%. It was concluded that storage using of aluminium foil was better until the 6th hour (71.67%).

Keyword : aluminium foil, storage time, motility, spermatozoon, frozen semen.

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