

INTISARI

PENGARUH PERLAKUAN *THAWING* PADA BERBAGAI SUHU TERHADAP MOTILITAS SEMEN BEKU SAPI SIMMENTAL DAN SAPI LIMOUSINE

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Keberhasilan inseminasi buatan dipengaruhi oleh kondisi reproduksi, manajemen ternak, inseminator, dan penanganan semen beku yang digunakan. Penelitian dilaksanakan untuk mengetahui pengaruh perlakuan *thawing* pada berbagai suhu terhadap motilitas semen beku sapi Simmental dan sapi Limousine.

Materi yang digunakan dalam penelitian ini adalah 45 *straw* berisi semen beku sapi Simmental dan 45 *straw* berisi semen beku sapi Limousine. Tiap 15 *straw* sapi Simmental dan sapi limousine dimasukkan dalam air keran bersuhu lingkungan, air hangat bersuhu 35-37°C, dan air es selama ± 30 detik, kemudian dilakukan pemeriksaan *post-thawing motility* segera setelah dilakukannya proses *thawing*. Data penelitian dianalisa menggunakan statistik *Two Way Anova*.

Hasil penelitian menunjukkan bahwa pada faktor media *thawing* tidak menunjukkan perbedaan motilitas *post-thawing* yang signifikan ($p\text{-value} > 0.05$), sedangkan jenis sapi menunjukkan perbedaan motilitas *post thawing* yang signifikan ($p\text{-value} < 0.05$). Motilitas terbaik pada semen beku sapi Simmental dan sapi Limousine adalah yang di *thawing* dalam media air hangat 35-37 °C selama ± 30 detik.

Kata Kunci: sapi Simmental, sapi Limousine, *thawing*, motilitas pasca *thawing*, semen beku

ABSTRACT

THE EFFECT OF VARIOUS TEMPERATURE OF THAWING ON SIMMENTAL AND LIMOUSINE BULL'S FROZEN SEMEN MOTILITY

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The success of artificial insemination is influenced by conditions of reproduction, cattle management, inseminator, and frozen semen handling. This research was conducted to determine the effect of various temperature of thawing on Simmental and Limousine bull's frozen semen motility.

Materials used for the research are 45 straws of Simmental bull and 45 straws of limousine bull. Each 15 straws of Simmental and limousine bull were thawed with tap water, warm water (35-37°C), and cold water for ± 30 seconds. The examination of post thawing motility was performed immediately after thawing process. Obtained data were analyzed using Two Way Anova.

The factor test showed that the thawing media was not significantly different on motility percentage ($p\text{-value} > 0.05$), whereas breed of bull was significantly different on motility percentage ($p\text{-value} < 0.05$). The best motility percentage both on Simmental and Limousine bull frozen semen is that thawed on warm water 35-37°C for ± 30 seconds.

Keywords: Simmental bull, Limousine bull, thawing, post thawing motility, frozen semen