

PROSES PRODUKSI SEMEN BEKU SAPI SIMMENTAL DI BALAI INSEMINASI BUATAN (BIB) UNGARAN, SEMARANG PERIODE SEPTEMBER 2016- FEBRUARI 2017

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INTISARI

Tugas Akhir ini merupakan hasil praktek kerja lapangan di Balai Inseminasi Buatan (BIB) Ungaran, Semarang tentang Proses Produksi Semen Beku Sapi Simmental Di Balai Inseminasi Buatan (BIB) Ungaran, Semarang Periode September 2016-Februari 2017. Tujuan penulisan tugas akhir ini adalah untuk mengetahui proses produksi semen beku yang ada di Balai Inseminasi Buatan (BIB) Ungaran mulai dari persiapan pengencer semen sampai dengan *post thawing motility* (PTM). Pengambilan data dilakukan dengan mengamati secara langsung terhadap kegiatan proses produksi semen beku, informasi dari petugas, dan data tertulis hasil produksi semen beku sapi Simmental periode bulan September 2016-Februari 2017. Proses produksi semen beku meliputi pembuatan pengencer semen, pengoleksian semen segar, pemeriksaan makroskopis dan mikroskopis, pengenceran dan ekuilibrase, *printing, filling- sealing, pre-freezing, freezing*, penyimpanan semen beku ke dalam kontainer berisi N₂ cair, dan *post thawing motility* (PTM). Berdasarkan data yang didapatkan, proses pembuatan semen beku sapi Simmental di Balai Inseminasi Buatan Ungaran (BIB) sudah baik tetapi untuk hasil produksi semen beku tidak stabil. Semen beku yang dapat didistribusikan setiap mini straw mengandung 25 juta sel spermatozoa per ml dan semen beku memiliki hasil *post thawing motility* (PTM) dengan motilitas minimal 40% dan gerakan individu spermatozoa minimal 2+ (*progresif*).

Kata kunci: *sapi Simmental, semen beku, proses produksi semen beku, post thawing motility* (PTM).

**THE PROCESS OF SIMMENTAL CATTLE FROZEN CEMENT
PRODUCTION AT UNGARAN ARTIFICIAL INSEMINATION CENTER,
SEMARANG SEPTEMBER 2016 - FEBRUARY 2017 PERIOD**

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ABSTRACT

This study is the result of fieldwork practice about Frozen Cement Production Process of Simmental Cattle at Ungaran Artificial Insemination Center, Semarang September 2016-February 2017 period. The aim of this study is to find out the process of frozen cement production at Ungaran Artificial Insemination Center starts from the process of thinning cement until post-thawing motility (PTM). The data collection process is by observing directly the activity of frozen semen production, information from the officer, and written data of frozen cement production in September 2016-February 2017 period. Frozen cement production process includes making cement dilution, fresh cement collection, macroscopic and microscopic examination, dilution and equilibration, printing, filling-sealing, pre-freezing, freezing, storage of frozen semen into containers of liquid N₂, and post thawing motility (PTM). Based on the data obtained, the process of frozen cement production at Ungaran Artificial Insemination Center is good but for the production of cement are not stable. Frozen cement that can be distributed is each mini straw containing 25 million cells of spermatozoa per ml and frozen cement which has post-thawing motility (PTM) with minimal motility of 40% and individual movement of spermatozoa minima 2+ (progressive).

Keywords: Simmental cattle, frozen cement, frozen cement production process, post thawing motility (PTM).