

**COCONUT WATER ADDITION TO EGG YOLK THINNER TOWARD  
MOTILITY AND VIABILITY OF SAPUDI SHEEP'S SPERMATOZOA  
ON THE 5°C STORAGE**

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**ABSTRACT**

The aim of this research was to know, the provision of the egg yolk plus coconut water can increase motility and viability of sapudi sheep's spermatozoa on the 5°C storage.

This experiment using Completely Randomized Design. Data were analyzed by SPSS 23.0 with treatment control (P0): sheep semen 0.1 ml + 1 ml egg yolk; citrate control (POS): 1 ml of egg yolk citrate; treatment 1 (P1): 0.9 ml egg yolk + 0.1 ml coconut water; treatment 2 (P2): 0.8 ml egg yolk + 0.2 ml coconut water; treatment 3 (P3): 0.7 ml of egg yolk + 0.3 ml of coconut water. treatment 4 (P4): 0.6 ml of egg yolk + 0.4 ml of coconut water.

The research treatment best obtained at P2 with motility of spermatozoa after the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and the 4<sup>th</sup> days of storage time show that P2 concentration have the highest result. The highest viability result on the 1<sup>st</sup> and 2<sup>nd</sup> days was in P2 but on the 3<sup>rd</sup> and 4<sup>th</sup> days of the highest result found in P1.

**Key words** : Coconut Water, Egg yolk, Motility, and Viability of sheep spermatozoa.