

**UJI KUALITAS SEMEN BABI DENGAN PENGECER NIRA AREN
DAN SITRAT KUNING TELUR**

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INTISARI*)

Penelitian ini dilakukan bertujuan untuk mengetahui kualitas semen babi yang diencerkan dengan nira aren dan sitrat kuning telur. Penelitian ini dirancang dengan Rancangan Acak Lengkap (RAL) pola searah. Semen hasil penampungan diencerkan menggunakan berbagai level pengencer nira aren dan sitrat kuning telur antara lain R1 (NA 0% + SKT 100%), R2 (NA 25% + SKT 75%), R3 (NA 50% + SKT 50%), R4 (NA 75% + SKT 25%), disimpan pada suhu 18⁰ C selama 4 jam. Data yang diperoleh dalam penelitian ini dianalisis menggunakan *Analysis of Variance* (ANOVA), jika terdapat berbeda nyata dilanjutkan dengan uji *Duncan's Multiple Range Test*. Hasil penelitian menunjukkan bahwa pengencer nira aren dan sitrat kuning telur pada gerak massa, dan motilitas individu berbeda tidak nyata, sedangkan pada persentase hidup dan abnormalitas spermatozoa menunjukkan ada perbedaan yang nyata. Rerata motilitas gerak massa R1: 2 (+); R2 : 1 (+); R3 : 2 (+); R4 : 1 (+). Rerata motilitas gerak individu R1 : 30,33%; R2 : 27,66%; R3 : 48,33%; R4 : 24,66%. Rerata persentase hidup spermatozoa R1 : 36,57%; R2 : 45,28%; R3 : 58,97%; R4 : 23,33%. Rerata abnormalitas spermatozoa R1 : 21,46%; R2 : 10,42%; R3 : 7,91%; R4 : 26,22%. Berdasarkan analisis data yang diperoleh dapat disimpulkan bahwa pengencer nira aren pada level 50% dapat meningkatkan kualitas semen babi.

Kata kunci : Pengencer, Nira Aren, Sitrat Kuning Telur, Semen Babi.

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**THE QUALITY TEST OF PIG SEMEN DILUTED WITH ROOMIE
SUGAR PALM AND YOLK CITRATE.**

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ABSTRACT*

This research was aimed to determine the quality of pig sperm diluted with palm juice and egg yolk citrate. This study was designed with a Completely Randoized Design (CRD) one way pattern. The collected sperm was diluted using various levels of palm sugar dilution and egg yolk citrate, among others, R1 (NA 0% + SKT 100%), R2 (NA 25% + SKT 75%), R3 (NA 50% + SKT 50%), R4 (NA 75% + SKT 25%), stored at 18°C for four hours. The data obtained in this study were analyzed using *Analysis of Variance* (ANOVA), if there iwas a significant difference followed by the *Duncan Multiple Test*. The result showed that the diluent of palm sugar and egg yolk citrate on mass motion, and individual motility were non significant difference, while the persentage of life and abnormalities of *spermatozoa* showed significant differences. Average mass motion R1 : 2(+); R2 :1(+); R3 :2(+); R4 :1(+). Average individual motility R1 : 30,33%; R2 :27,66% ; R3 : 48,33% ; R4 : 24,66%. The average persentage of *spermatozoa* R1 :36,56%; R2 : 45,28%; R3 :58,97%; R4 :23,33%. Average abnormalities R1 : 26,22%; R2:10,42%; R3: 7,91%; R4: 26,22%. Based on the result of the data obtained it could be concluded that palm sugar diution in 50% level increased pig semen quality.

Keywords: Diluents, Palm Sugar, Egg Yolk Citrate, Pig semen.

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