

**EFFECT OF ADDITION EXTRACT OF SWEET POTATO (*Ipomoea batatas*)
INTO EGG YOLK CITRATE ON MOTILITY AND VIABILITY
OF RAM SPERMATOZOA**

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ABSTRACT

Aim of this research was to study the effect of addition of sweet potatoes extract into egg yolk citrate on motility and viability of ram spermatozoa. There were four treatments: 1) P0= egg yolk citrate; 2) P1= egg yolk citrate with extract of sweet potatoes; 3) P2= egg yolk citrate with extract of sweet potatoes; 4) P3= sweet potatoes extract citrate. Each treatments were stored at 5°C and observed for five level of storage time, which were at 0 hour, at 24 hour, at 48 hour, at 72 hour, at 96 hour. Data were analysed using completely randomised design with factorial pattern 4x5 followed by duncan multiple range test if there were significant differences ($P<0.05$). The highest percentage of motility and viability were obtained from P3 at 0 hour which were $85,00\pm 5,774\%$ and $94,25\pm 2,754\%$. The lowest percentage of motility and viability were obtained from P3 at 96 hour which were $2,50\pm 5,000\%$ and $19,75\pm 5,888\%$. Conclusion of this research was the addition of sweet potatoes extract into egg yolk citrate no real different with motility and viability of ram spermatozoa, but sweet potatoes extract can be used to increase the volume of diluter.

Keywords : ram semen, motility, viability, sweet potatoes