

## ABSTRACT

INSULIN LIKE GROWTH FACTOR – I COMPLEX AS A ANTIOXIDANT ALTERNATIF  
IN CAPATITIAON MEDIUM OF GOAT SPERM

One of the protein in the seminal plasm of goat is Insulin Like Growth Factor –I (IGF-I) Complex. IGF-I Complex has molecular weigth 150,288 kDa which consisted of three protein molecules that were IGF-I (subunit  $\alpha$ ) , IGFBP (subunit  $\beta$ )and ALS (Acid Label Subunit) ( subunit  $\gamma$ ) The research was done into two phases. First phase concerned with explorative to identify and isolation of IGF-I Complex and second phase was to supplementation of IGF-I into capatitiation medium of goat sperm. The aim of this research was to increased of motiliyi, viability, capatitition and decreased of MDA concentration. The benefit of this research was to increased of the sperm quality so that can used for in vitro fertilitation. Analysis with varian showed significant different ( $P<0,05$ ) to motility, viability, capatitiation and MDA concentration. From results above can be concluded that poetin of IGF-I Complex can increase of motility, viability, capatitiation and decreased of MDA concentration.

