

3.100 PLASMA  
TISSUE (ADLN - Perustakaan Unair)  
AXIS (KUHII)

ADLN - Perustakaan Unair

**SKRIPSI**

**PENGARUH LAMA SIMPAN SAMPEL DAN PENAMBAHAN  
SERUM TERHADAP TINGKAT KEBERHASILAN KULTUR  
PRIMER SEL SOMATIK DARI JARINGAN KULIT  
TELINGA RUSA BAWEAN (*Axis kuhlii*) UNTUK  
KONSERVASI PLASMA NUTFAH**

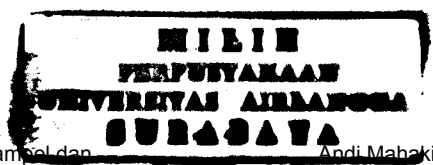
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**INFLUENCE OF SAMPLE LONG PRESERVE AND SERUM ADDITION  
TOWARDS YIELD LEVEL OF PRIMARY SOMATIC CELL CULTURE  
FROM BAWEAN DEER (*Axis kuhlii*) AURICLE EPIDERM  
FOR GERM PLASM CONSERVATION**

**Andi Mahakista**

**ABSTRACT**

Primary cell culture potentially is able to the produce somatic cells as a cell lines. As these cells may be able to provide an unlimited cell source to produce embryo by nuclei transfer method. The research that we used Bawean deer auricle epiderm as a sample was to obtain the growth yield level on primary tissue culture by *in vitro*. The first experiment was to obtain the level of yield primary tissue culture with sample that we preserved into Phosphat Buffer Saline solution during 0, 24, and 48 hours on room temperature. Furthermore, the second experiment was doing in order to differentiate the using of Fetal Bovine Serum 10% and Estrous Goat Serum 10% as an addition in primary tissue culture by TCM 199. The variable of research which we observe last time was include tissue attachment time, the cell growth level, cell viabilities and cell concentrations. A result of first experiment indicate a sample with we preservation term of 0 hour could attach and growth until being confluent, eventhough a sample which we preserved during 24 and 48 hours couldn't attach and growth very well. A result of second experiment that increased at FBS 10% on culture medium was indicate a tissue attachment in 5<sup>th</sup> days of culture; 50% level of cell growth could be between 28<sup>th</sup> – 32<sup>nd</sup> days of culture and being confluent on 43<sup>rd</sup> days of culture; average of cell viabilities reached 59,7%; average of cell concentrations reached  $1,88 \times 10^5$  cells/ml. Eventhough a result of experiment that increased at EGS 10% on culture medium was indicate a tissue attachment in 4<sup>th</sup> days of culture; 50% level of cell growth could be increased between 25<sup>th</sup> – 28<sup>th</sup> days of culture that couldn't be confluent cause a tissue culture being contaminated between 39<sup>th</sup> – 43<sup>rd</sup> days of culture so that we couldn't know both the cell viabilities and cell concentrations.

**Key words:** primary cell culture, somatic cells, auricle epiderm, confluent.