



## Intisari

Penelitian bertujuan untuk mengetahui pengaruh kombinasi bahan penyamak mimosa dan krom terhadap mutu kulit nila tersamak. Penelitian menggunakan Rancangan Acak Lengkap (RAL) 1 (satu) faktor (kombinasi bahan penyamak mimosa dan krom) dan 3 (tiga) kali ulangan dengan 4 (empat) perlakuan, masing-masing: perlakuan p1 (5% mimosa + 2% krom), p2 (7,5% mimosa + 2% krom), p3 (10% mimosa + 2% krom) serta (12,5% mimosa + 2% krom). Data hasil penelitian dianalisis dengan Analisis Varian dan dilanjutkan dengan Uji Beda Nyata Terkecil (BNT) menggunakan *software* SPSS 22. Parameter mutu yang diamati yaitu: Kekuatan tarik ( $N/cm^2$ ), Kekuatan sobek ( $N/cm$ ), Kemuluran (%), Kelemasan (mm), Suhu kerut ( $^{\circ}C$ ), Kadar lemak (%) dan Kadar air (%). Hasil penelitian menunjukkan bahwa perlakuan kombinasi mimosa dan krom umumnya berpengaruh terhadap parameter mutu kulit ikan nila tersamak, kecuali kemuluran dan kadar air. Parameter mutu kulit nila tersamak yang diamati telah memenuhi standar mutu SNI 06-4586-1998 tentang Syarat Mutu Kulit Ular Air Tawar Samak Krom, kecuali parameter kemuluran, suhu kerut serta kelemahan. Perlakuan yang menghasilkan mutu kulit nila tersamak yang terbaik yaitu p2 (7,5% mimosa + 2% krom).

**Kata kunci:** krom, kulit nila, mimosa, mutu, penyamakan



## *Abstract*

This study aims to determine the effect of a combination of vegetable tanning mimosa and chrome on the quality of tanned tilapia skin. The study design used was completely randomized design (CRD), one factor (combined of mimosa and chrome) with 3 replication and 4 treatment, concentration of tanning combination mimosa and chrome, namely: p1 (5% mimosa + 2% chrome), p2 (7,5% mimosa + 2% chrome), p3 (10% mimosa + 2% chrome) and (12,5% mimosa + 2% chrome). The data were analyzed using Variant Analysis and continued by Test Significant Difference (LSD) with SPSS 22. The parameters measured were the tensile strength (N/cm<sup>2</sup>), tear strength (N/cm), elongation (%), enervation (mm), wrinkle temperature (°C), fat content (%) and water content (%). The result of the study indicates that the combination treatment of mimosa and chrome has significant effect, except on elongation and water content. All of the treatments already comply the standards of SNI 06-4586-1998 about Freshwater Snake Skin tanned chrome, except on elongation and enervation parameters. The best treatment is p2 (7,5% mimosa + 2% chrome).

**Keywords:** chrome, mimosa, quality, tanned, tilapia leather