

**SERUM TRIGLYCERIDES OF RATS (*Rattus norvegicus*) CONSUMED OF TRANS FATTY ACID FROM MARGARINE AND SHORTENING****Novia Ayu Retno Dewi****ABSTRACT**

The aim of this research was to investigate the effected of trans fatty acids consumed from margarine and shortening on serum triglycerides of rats (*Rattus norvegicus*). This study was conducted in twenty-five rats (*Rattus norvegicus*) and randomly divided into five experimental group. P0 was the control group, no margarine and shortening, the treatment group (P1) was consumption of 1.2 g/day margarine, the treatment group (P2) was consumption of 1.8 g/day margarine, the treatment group (P3) was consumption of 1.2 g/day shortening and the treatment group (P4) was consumption of 1.8 g/day shortening. After eight weeks consumption period, blood samples of rats (*Rattus norvegicus*) were taken and serum triglycerides measured by GPO-PAP test method. Statistical analyses were done through ANOVA (*Analisis of Variance*) using *SPSS 20 for Windows*. The result revealed in the treatment group (P1), (P2), (P3) and (P4) were not affected that serum triglycerides of rats (*Rattus norvegicus*) compare to control group (P0) ( $P>0.05$ ).

Key words : Trans Fatty Acid, Margarine, Shortening, Triglyserides