

**THE EFFECT OF *Cosmos caudatus* LEAF ETHANOL EXTRACT IN LIVER  
ON PARACETAMOL INDUCED ELEVATION SGOT AND SGPT  
IN BALB/c MICE**

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**ABSTRACT**

Pet animals and humans are at risk for developing toxicosis of drugs, include paracetamol that caused hepatic function as a major problem in the health world till now. One of Indonesian plant that is familiar with high content of flavonoid is *Cosmos caudatus*. The purpose of this study was to know the effect of *Cosmos caudatus* leaf ethanol extract especially as a hepatoprotector with preventing the elevation level of SGOT / AST enzyme and SGPT / ALT enzyme in the blood of male BALB/c mice that were exposed by paracetamol.

20 male BALB/c mice were divided randomly into four treatment groups as follows; P1: were given 1 ml/kg BW of CMC Na 1% suspension daily, P2: were given 1 ml/kg BW CMC Na 1% suspension daily and 1 g/kg BW of paracetamol on the 14<sup>th</sup> day, P3: were given 400 mg/kg BW of *Cosmos caudatus* leaf extract and 1 g/kg BW of paracetamol on the 14<sup>th</sup> day, P4: were given 800 mg/kg BW of *Cosmos caudatus* leaf extract and 1 g/kg BW of paracetamol on the 14<sup>th</sup> day of treatment.

From the result, the maximum ability of *Cosmos caudatus* leaf extract in dose of 400 mg/kg BW and 800 mg/kg BW as hepatoprotector for preventing the elevation of SGOT (*serum glutamate oxaloacetat transaminase*) / AST enzyme and SGPT (*serum glutamate pyruvat transaminase*) / ALT enzyme level in blood of male BALB/c mice that were exposed by paracetamol can't be seen well because of the less of the control and induced group for their ability as a standard parameters.

**Key Word:** *Cosmos caudatus*, paracetamol, SGOT / AST enzyme level, SGPT / ALT enzyme level