

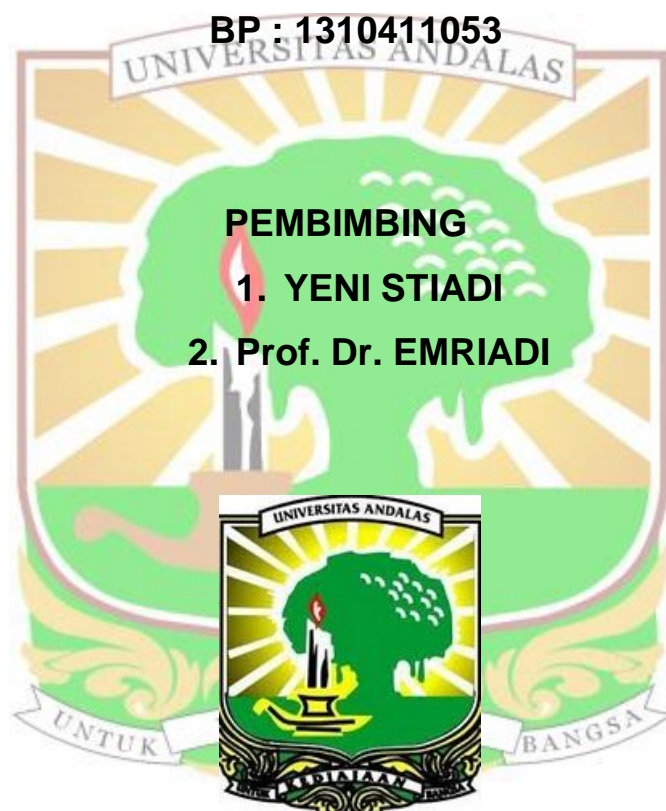
**EKSTRAK DAUN JENGKOL (*Pithecellobium lobatum*) SEBAGAI
INHIBITOR KOROSI BAJA DALAM MEDIUM ASAM KLORIDA**

SKRIPSI SARJANA KIMIA

Oleh

PUTRI YONI

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JURUSAN KIMIA

FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

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**Skripsi diajukan untuk memperoleh gelar Sarjana Sains pada Jurusan Kimia
Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Andalas**

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ABSTRACK

EXTRACT OF JENGKOL LEAVES (*Pithecellobium lobatum*) AS COROSION INHIBITOR FOR STEEL IN HYDROCHLORIC ACID MEDIUM

By :
Putri Yoni (1310411053)
Yeni Stiadi, M.S and Prof. Dr. Emriadi, M.S

Extract of jengkol leaves (*Pithecellobium lobatum*) was tested as corrosion inhibitor for steel in hydrochloric acid medium by weight loss method, potentiodynamic polarization and scanning electron microscopy (SEM). The weight loss determination showed that the decreased by addition extract of jengkol leaves. Maximum inhibition efficiency of temperature 30°C with addition extract 8 g/L is 80.35%. Potentiodynamic polarization measurements showed a extract of jengkol leaves is a type of anodic inhibitor. Extract adsorption on the steel surface follow the pattern of Langmuir adsorption isotherm. SEM analysis shows that there are differences in the morphology of the surface of steel, which is immersed in acid medium with and without the addition extract of jengkol leaves.

Keywords : *Pithecellobium lobatum*, Corrosion inhibitor, Weight loss, Potentiodynamic polarization, SEM

