

CHAPTER V

CONCLUSION

In this work, the chemical constituents found in the fruits of *Sapindus rarak* DC. from the methanolic extract, were two saponins compounds hederagenin 3-*O*- β -D-xylopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside (sapindoside B) (Sp1) and hederagenin 3-*O*-(4-*O*-acetyl- β -D-xylopyranosyl)-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside (mukurozi-saponin E₁) (Sp2) Sapindoside B and mukurozi-saponin E₁ showed molluscicidal activity with 100 % mortality at 7 ppm against *Pomacea canaliculata* (2.0-2.5 cm) after treating 72 h. and showed LC₅₀ values at 4.34 and 4.28 ppm, respectively after treating 24 h. By MTT colorimetric assay for cytotoxic activity, sapindoside B and mukurozi-saponin E₁ showed moderate cytotoxicity against human gastric carcinoma (KATO-3) activity with IC₅₀ values of 5.55 and 6.17 μ g/ml, respectively.