Supplementary Materials for

In vivo Evaluation of the Wound Healing Activity of Extracts and Bioactive Constituents of the Marine Isopod *Ceratothoa oestroides*

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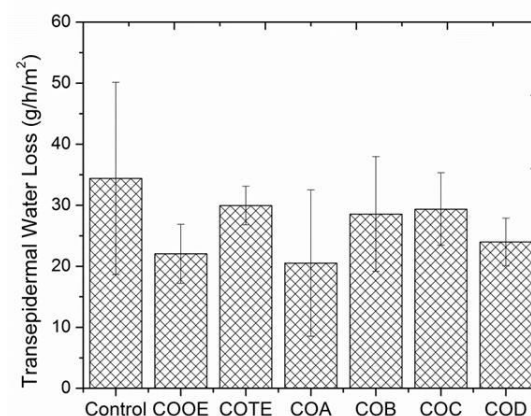
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Figure S1. TEWL values for the various mice groups receiving different treatments (no treatment, control; 1% olive oil extract, COOE; 1% total organic extract, COTOE; 1% cHex extract, COA; 1% CH_2Cl_2 extract, COB; 1% *n*-BuOH extract, COC; 1% H_2O extract, COD) on day 18 of the experiment. Values are presented as the mean±SD (n=3-4 mice per group). One-way ANOVA followed by Tukey's test was applied for comparison between the extract-treated mice groups and the negative control (*$p < 0.05$ vs control).
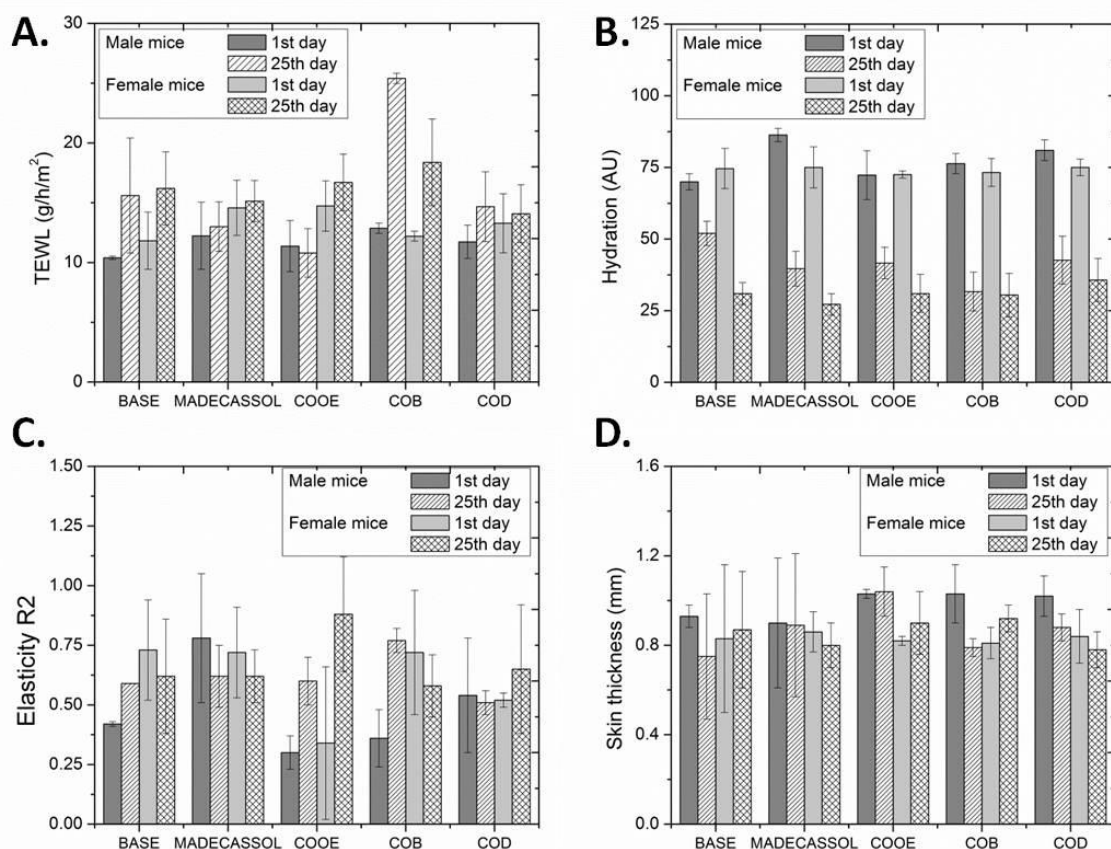

Figure S2. (**A**) TEWL values for male and female mice groups receiving different treatments (ointment base, BASE; Madecassol; 1% olive oil extract, COOE; 1% CH_2Cl_2 extract, COB; 1% H_2O extract, COD) on day 1 and day 25 of the experiment. (**B**) Hydration values for male and female mice groups receiving different treatments on day 1 and day 25 of the experiment. (**C**) Skin elasticity values for male and female mice groups receiving different treatments on day 1 and day 25 of the experiment. (**D**) Skin thickness values (mm) for male and female mice groups receiving different treatments on day 1 and day 25 of the experiment. Values are presented as the mean±SD (n=7 animals per group). One-way ANOVA followed by Tukey's test was applied for comparison between the treated mice and the control (*$p < 0.05$ vs control).
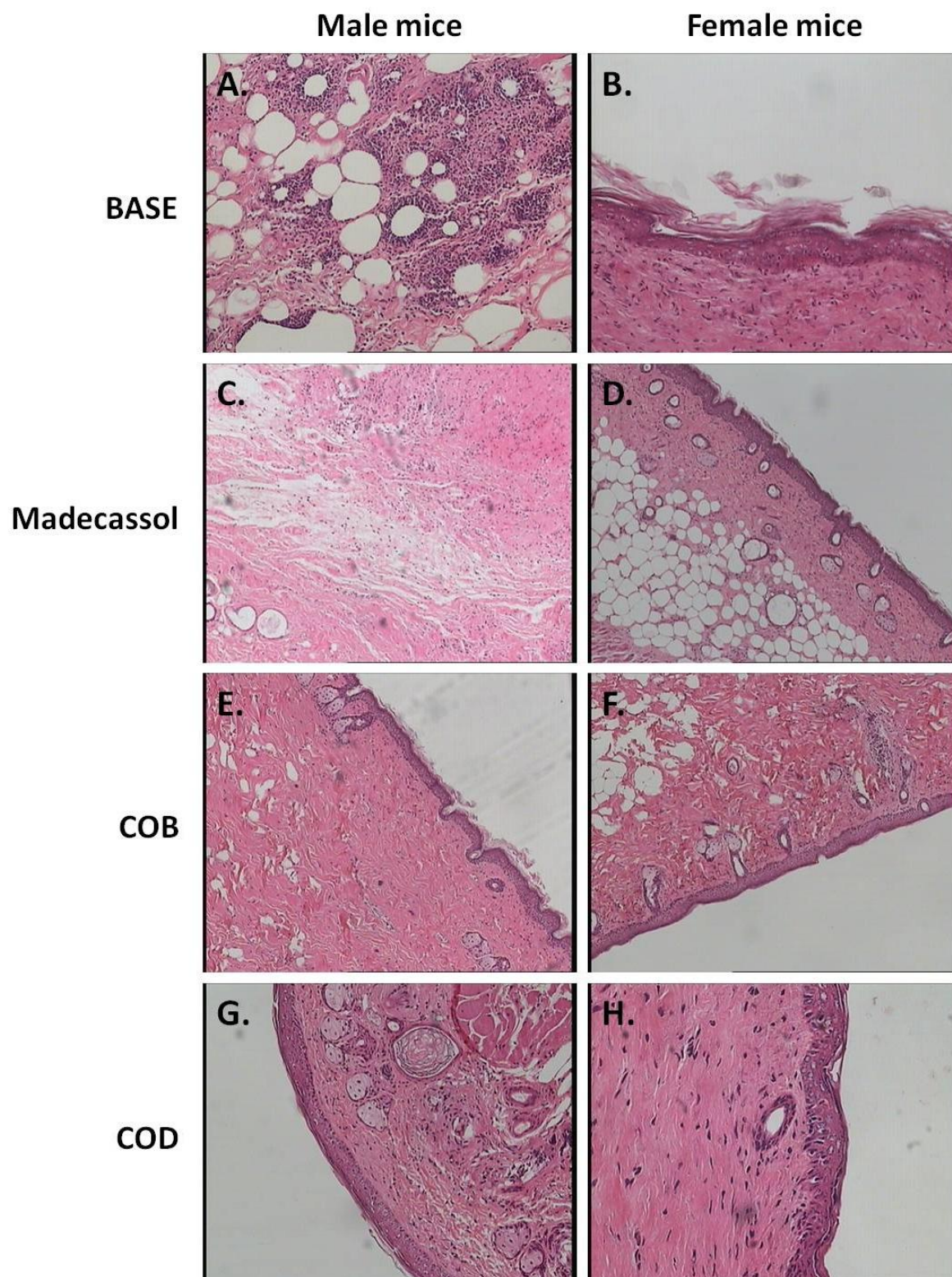
Figure S3. Representative histopathological images of male and female mice skin after treatment with the ointment base (**A** and **B**, respectively), Madecassol (**C** and **D**, respectively), 1% COB extract (**E** and **F**, respectively) or 1% COD extract (**G** and **H**, respectively) (magnification 100× (**C-G**), 200× (**A**, **B**) and 400× (**H**)). Samples were stained with hematoxylin and eosin.
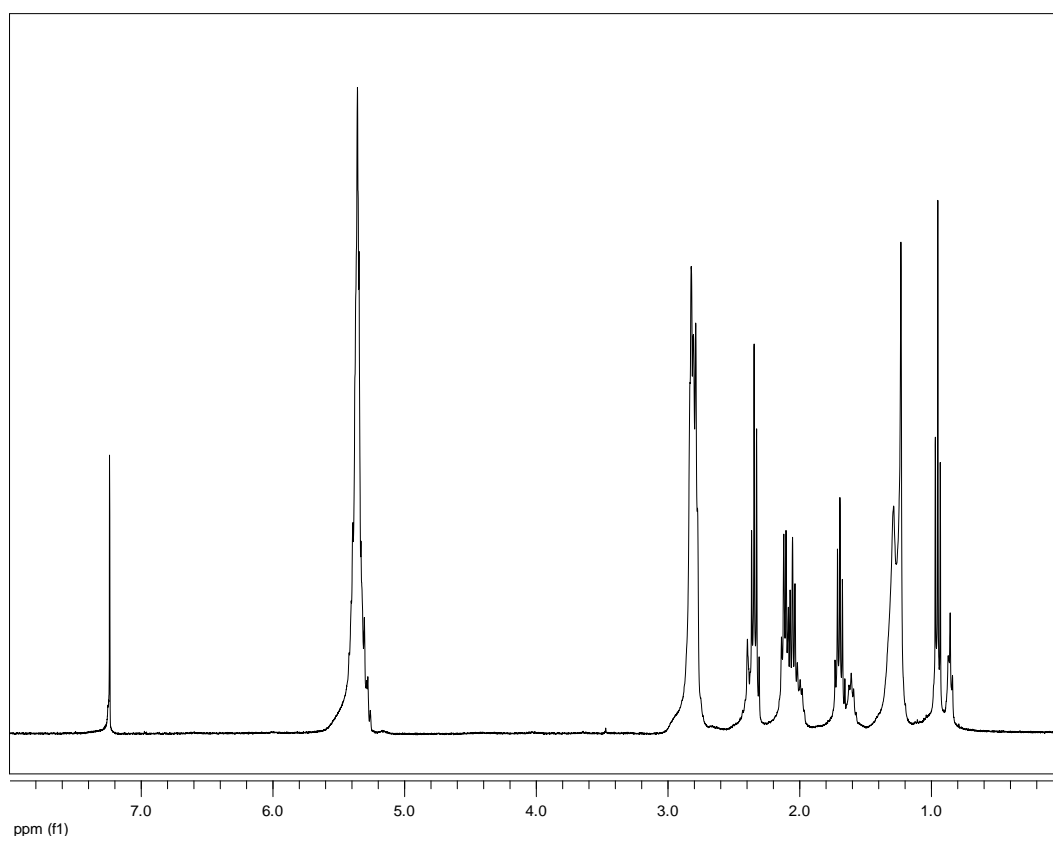
Figure S4. ^{1}H NMR spectrum of fraction COB-A in CDCl$_3$.
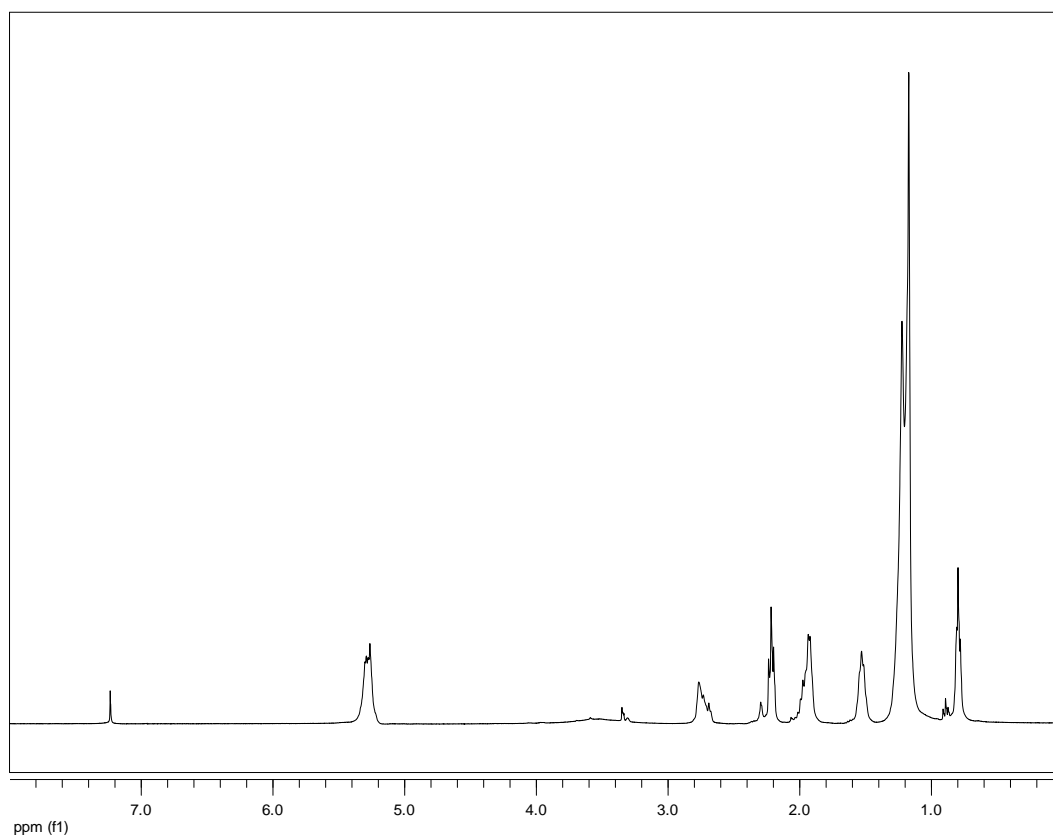

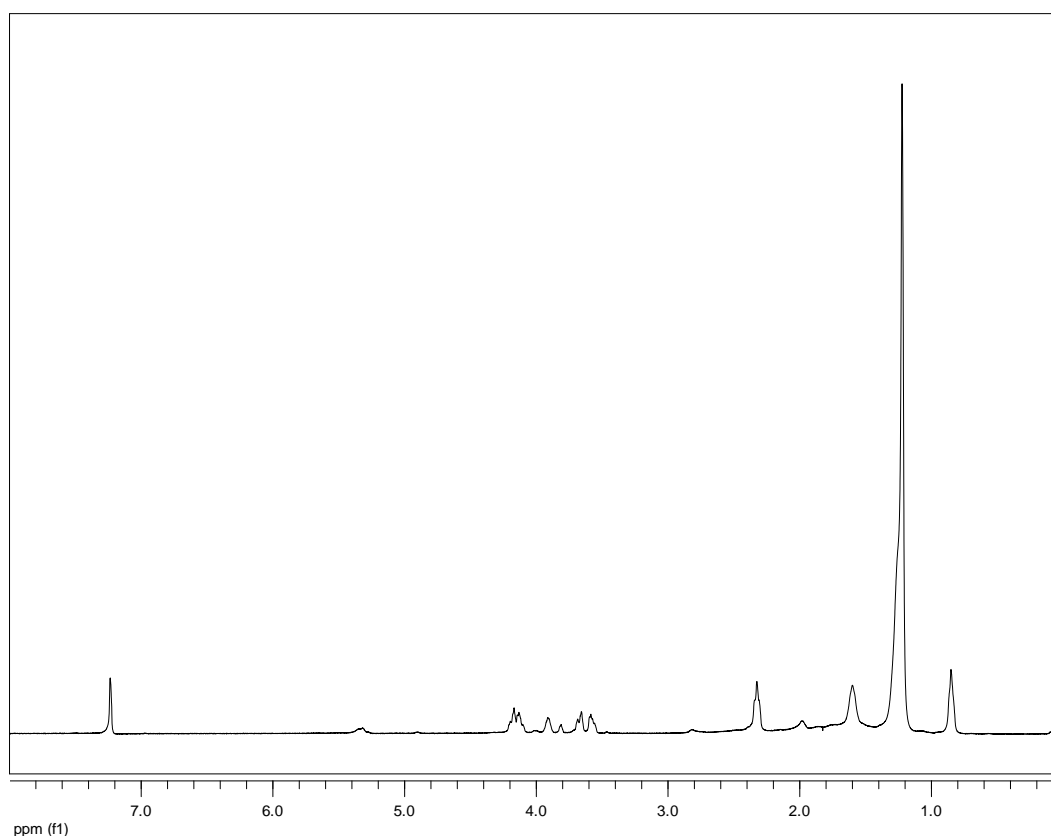**Figure S5.** ^{1}H NMR spectrum of fraction COB-B in CDCl$_3$.

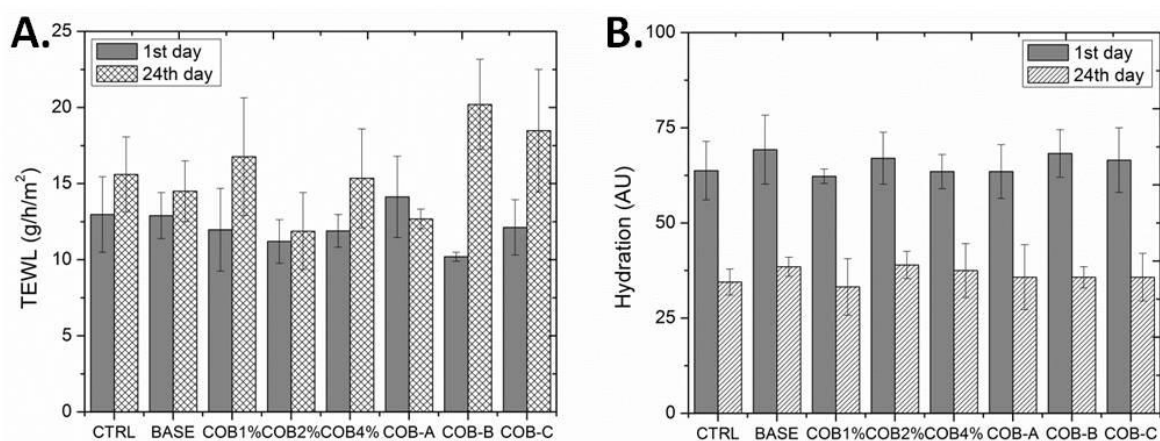**Figure S6.** ^{1}H NMR spectrum of fraction COB-C in CDCl$_3$.

Figure S7. (**A**) TEWL values for the various mice groups receiving different treatments (no treatment, control; ointment base, BASE; 1%, 2%, and 4% CH$_2$Cl$_2$ extract, COB1%; COB2% and COB4%, respectively; 0.3% COB-A fraction, COB-A; 0.3% COB-B fraction; COB-B; 0.3% COB-C fraction, COB-C) on day 1 and day 24 of the experiment. (**B**) Hydration values for the various mice groups on day 1 and day 24 of the experiment. Values are presented as the mean±SD (n=4 mice per group). One-way ANOVA followed by Tukey's test was applied for comparison between the treated mice and the control (*$p < 0.05$ vs control).