TRITERPENES FROM THE STEM BARK EXTRACT OF *EUONYMUS REVOLUTUS* (CELASTRACEAE)

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The isolation of a new trioxygenated friedelane derivative from the benzene extract of the stem bark of *Euonymus revolutus* (Celastraceae) was previously reported.(1) This paper reports the triterpenes isolated from the dichloromethane extract of *E. revolutus*.

Ten triterpenes have been isolated from the stem bark extract of *E.revolutus*. Seven of the triterpenes are friedelane derivatives. Four of these have been identified as D:A-Friedooleanan-3-one (Friedelin); D:A-friedooleanan-3,28-doone (canophyllal); D:A-friedooleanan-30-ol-3,28-dione; D:A-friedooleanan-29-ol-3-one and D:A-friedooleanan-28,29-diol-3-one. Spectroscopic evidence indicates that the remaining three triterpenes are lupane derivatives. One of these has been identified as betulin acetate.(1) The other two are trioxygenated derivatives with the lup-20(29)-ene skeleton, [ν_{max} 880 cm^{-1} : δ_H4.7, 4.6 (2H] and 1.66(3H)]. Chemical studies are in progress to establish the structures of the unidentified friedelanes and lupane derivatives.

Previous reports and our own studies on the *Celastraceae* indicated that friedelane and lupane derivatives apparently do not co-exist in the stem bark. The only exception reported thus far has been in *Elaeodendron glaucum*(2), but subsequent work was at variance with this observation(3). Hence this is our first report of the coexistence of friedelane and lupane derivatives in a stem bark extract from the *Celastraceae*.

References

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