

## New diterpenes from *Azorella spinosa*

Astudillo, Luis

Gutiérrez, Margarita

Quesada, Luisa

San-Martín, Aurelio

Espinoza, Luis

Peñailillo, Patricio

Two new diterpenes, 2-acetoxy-13-hydroxy-mulin-11-ene and 2-acetoxy-mulin-11, 13-diene, have been isolated from the aerial parts of *Azorella spinosa* and their structures determined by spectroscopic and conventional chemical methods. Furthermore, 2, 13-dihydroxy-mulin-11-ene was obtained using a basic hydrolysis of the first compound. Two diterpenes reported for other *Azorella* species have also been found, namely mulinolic acid and 13 $\beta$ -hydroxyazorellane, as well as the triterpene lactone of ursolic acid, quercetin, and 7-hydroxycoumarin. The compounds were evaluated using antibacterial, antioxidant and enzymatic assays; no significant activity was detected.