Eighteen alkaloids were detected in the bark, leaves, wood and roots of Peumus boldus, including traces of secoboldine, N-methylsecoboldine (boldine methine), glaucine and norreticuline, not reported previously as constituents of this species. Using appropriate standards, we quantified thirteen of them by UHPLC-MS/MS. Boldine was dominant in the bark, and laurolitsine in wood and roots. The alkaloid composition of the leaves, determined for 130 individually identified trees, classified by age and sex, was highly variable, where N-methyllaurotetanine, laurotetanine, coclaurine and in some cases isocorydine predominated, but not boldine. © 2018 Elsevier B.V.
glaziovine
higenamine
isoboldine
isocorydine
isocorydine n oxide
laurolitsine
laurotetanine
n methylcoclaurine
n methyllaurotetanine
n methylsecoboldine
norglaucine
norisocorydine
norreticuline
pallidine
peumus boldus extract
plant extract
pronuciferine
reticuline
secoboldine
sinoacutine
unclassified drug
alkaloid
aporphine derivative
boldine
glaucine
isocorydine
isoquinoline derivative
laurolitsine
laurotetanine
norreticuline
plant extract
Article
bark
drug determination
drug identification
limit of detection
limit of quantitation
Peumus boldus
phytochemistry
plant leaf
plant root
priority journal
traditional medicine
ultra performance liquid chromatography
wood
chemistry
high performance liquid chromatography
Peumus boldus
tandem mass spectrometry
Alkaloids
Aporphines
Chromatography, High Pressure Liquid
Isoquinolines

Peumus

Plant Bark

Plant Extracts

Plant Leaves

Plant Roots

Tandem Mass Spectrometry

Wood