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Czech J. Food Sci.

**G. Chunsriimyatav, I.
Hoza, P. Valášek, S.**

**SKRIVANIKOVA, D.
Banzragch, N.
Tsevegsuren:
Anticancer Activity of
Lignan from the Aerial
Parts of *Saussurea
salicifolia* (L.) DC.**

Czech J. Food Sci., 27 (2009): S256-S258

Aerial parts of *Saussurea salicifolia* (L.) DC were studied for their lignan and flavonoids in solvent chloroform and *n*-butanol of ethanolic extract. Isolation and identification of phenolic compounds of the chloroform and *n*-butanol fractions were performed with Dionex HPLC-DAD system with water-methanol gradients in 4 different wave lengths (235 nm, 254 nm, 280 nm and 340 nm), using online UV and LC-MS as described previously. 9-OH-pinoresinol which is a lignan with anticancer activity was dominated in the chloroform fraction, whereas mainly flavonoid glycosides like quercetin-3-O-galactoside, apigenin-7-O-rhamnoside

with anti-inflammatory effect were detected in the n-butanol fraction. Additionally, 9-OH-pinoresinol was also found in the n-butanol fraction. Anticancer tests were conducted in leukemia mouse lymphoma cells L5178Y at a concentration of 10 µg/ml of test compound. Crude ethanol extract of *S. salicifolia* reduced the growth of leukemia mouse lymphoma cells L5178Y to 23.8%.

Keywords:

flavonoids; *Saussurea salicifolia*; anticancer activity; Dionex HPLC-DAD system

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