Triterpenoid saponins from Eryngium yuccifolium ‘Kershaw Blue’ (Abstract)

Ping Wang  
*Stephen F Austin State University, Arthur Temple College of Forestry and Agriculture, wangp@sfasu.edu*

Wei Yuan  
*Stephen F Austin State University, Arthur Temple College of Forestry and Agriculture, yuanw@sfasu.edu*

Guangrui Deng

Zushang Su  
*Stephen F. Austin State University, Arthur Temple College of Forestry and Agriculture, suz@sfasu.edu*

Shiyou Li  
*Stephen F Austin State University, Arthur Temple College of Forestry and Agriculture, lis@sfasu.edu*

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Wang, P.; Yuan, W.; Deng, G.; Su, Z.; Li, S

**Abstract**

Phytochemical investigation on the root of *Eryngium yuccifolium* ‘Kershaw Blue’ resulted in the isolation and identification of two new polyhydroxyoleanene saponins, named eryngioside M and eryngioside N, together with 15 known triterpenoid saponins eryngiosides A-L, 21β-angeloyloxy-3β-[β-D-glucopyranosyl-(1 → 2)]-β-D-xylopyranosyl-(1 → 3)]-β-D-glucuronopyranosylxyloxyolean-12-ene-15α,16α,22α,28-tetrol, saniculasaponin III, and saniculasaponin II. Their structures were established by extensive spectroscopic and chemical analyses. Eryngioside M and saniculasaponin II showed week cytotoxicity against human non-small cell lung tumor cells (A549) with GI_{50} values of 37.5 ± 1.59 µM and 35.5 ± 1.11 µM, respectively.