Two new triterpenoid saponins were isolated from the ethanolic extract of the aerial parts of *Astragalus corniculatus* Bieb. The structures of the saponins were elucidated as 3β-O-[O-4-oxo-pentopyranosyl-(1→2)-β-D-glucopyranosyl]-21α-hydroxyolean-12-ene-28-oic acid (1) and 21α-hydroxyolean-12-ene-28-oic acid 3β-4-oxo-pentopyranoside (2) by chemical and spectral methods.

**Key words:** Astragalus corniculatus, Fabaceae, Triterpenes