Dear Editor,

I have the pleasure to submit this work on *Astragalus monspessulanus* L. (Fabaceae) growing in semiarid areas of Algeria. The present paper describes the isolation and characterization of seven flavonoids 1-7, two saponins and one lignan from the *n*-butanol extract and two phytosterols and one triterpenoid from the ethyl acetate extract. This result is in good agreement with that of the previous studies made on the *Astragalus* genus, where flavonoids and tritepenic saponins were the major compounds. This work also highlights the difference in chemical composition on flavonoids between *Astragalus monspessulanus* of bulgarian origin and the same species which grows in arid and semi-arid areas of Algeria. In fact only rutin is common. This is also the first report of the occurrence of triterpenic saponins in *Astragalus monspessulanus* L. and the second identification of dehydrosoyasaponin I in the *Astragalus* genus. Furthermore, the antioxidant activity of the *n*-butanol extract of the aerial parts of *Astragalus monspessulanus* by chemical analyses towards DPPH radical, was evaluated with the result that the extract exhibited a moderate antioxidant activity with an IC50 value of 63.60 μg/mL.

Hoping that this paper will meet the Records of Journal of the Serbian Chemical Society of acceptance,

Best regards,

Mohammed BENKHALED

1) Professor Salah Akkal, Laboratoire de Phytochimie et Analyses Physico-chimiques et Biologiques, Département de Chimie, Faculté des Sciences, Université Mentouri, Route de Aïn El Bey, 25000, Constantine, Algérie.

Tel/Fax: 213 31 81 88 83 or 213 31 81 88 16

E-mail: [salah4dz@yahoo.fr](mailto:salah4dz@yahoo.fr)

2) Dr Bruno David, Pôle Actifs Végétaux - Branche Sourcing R&D et Botanique  
Institut de Recherche Pierre FABRE  
3, Avenue Hubert Curien - BP 13562  
31035 TOULOUSE  
FRANCE  
Tel +33 (0)5 34 50 61 50  
Fax +33 (0)5 34 50 31 50  
www.pierre-fabre.com

3) Dr Laurence Marcourt  
Pharmacognosie, Phytochimie et Produits Naturels Bioactifs  
Section des Sciences Pharmaceutiques  
Université de Genève - Sciences II  
Quai Ernest-Ansermet 30  
CH-1211 Genève 4  
Tel : +41 22 379 33 87

E-mail : Laurence.Marcourt@unige.ch