Investigation of the roots of *Ononis natrix* L. (known locally as Wasbeh), which is growing wild in Jordan and used in folk medicine as a diuretic and to treat urinary tract disorders and hypertension, led to the isolation and characterization of 8 pterocarpans: pterocarpin, homopterocarpin, medicarpin, maackiain, kushenin, 8-hydroxy-3,9-dimethpxypterocarpin, medicarpin-P-D-gluc- oside and trifolirhizin.