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Ecdysteroids from Serratula coronata L.

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The ecdysteroid composition of *Serratula coronata L*. from the North-East of Russia is studed.

Ecdysteroid mixture was isolated from the *Serratula coronata L*. aerial parts of the plants by water extraction and combination of low pressure RP-LC with step-gradient elution with CH₃OH/H₂O mixtures. Individual compounds were obtained and purified by preparative HPLC. It was found out that *Serratula coronata L*. contained 20-hydroxyecdysone and ecdysone together with 25S-inokosterone, makisterones A and C, ajugasterone C and dacryhainansterone which were identified from this plant species for the first time.

We compared the composition and content of ecdysteroids in samples of *Serratula coronata L*. cultivated in Komi with one from wild plants from the native area (Altai, Russia). Both samples contain the same set of ecdysteroids that can be better explained not as an impact of ecological and/or geographical growth conditions on ecdysteroid composition, but rather as a consequence of improved methodology which allowed the separation of compounds mentioned above.