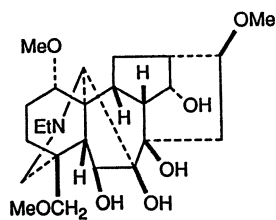
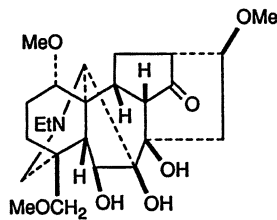


3.2.3.29 *Aconitum scaposum* var. *vaginatum*

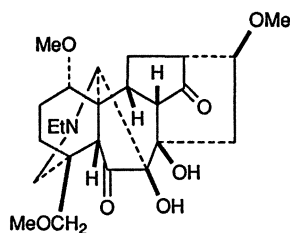
Three new diterpene alkaloids vaginatine (3-91), vaginaline (3-92), and vaginadine (3-93) were isolated from the root of *Aconitum scaposum* var. *vaginatum*. They are polyhydroxyaconitane derivatives. Whereas vaginatine is a tetrol, vaginalin is a 14-oxo derivative and vaginadine a 6,14-dioxo analogue [72].



Vaginatine (3-91)



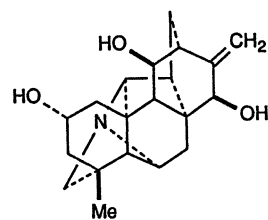
Vaginaline (3-92)



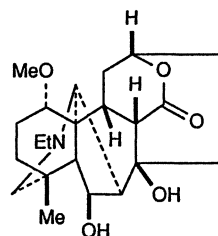
Vaginadine (3-93)

3.2.3.30 *Aconitum tanguticum*

Tanwusine (3-94), a new alkaloid with a hetisan skeleton, was isolated, together with atisine, heteratisine (3-95) and its benzoyl derivative, from the whole plant of *A. tanguticum* [73].



Tanwusine (3-94)



Heteratisine (3-95)

3.2.4 Chemical Constituents Other than Diterpene Alkaloids

Besides the diterpene alkaloids some other compounds, with or without nitrogen, were isolated from aconite roots and chemically and pharmacologically investigated.

From the roots of *A. carmichaeli*, coryneine chloride (3-96) [74] and salsolinol (3-97) [75] were discovered. From the roots of *A. japonicum*, used for a long time as