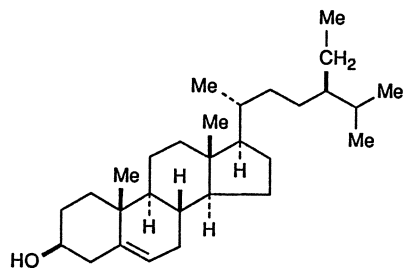
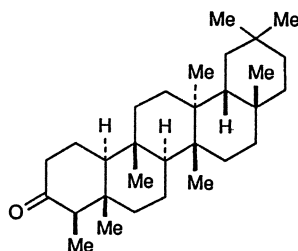


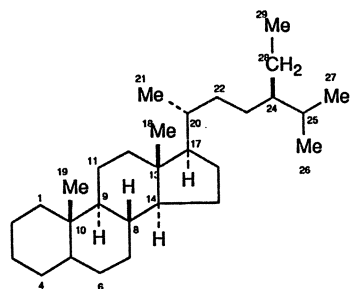
2 *Acanthopanax senticosus* (Rupr. et Maxim.) Harms



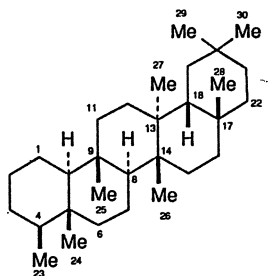
β -Sitosterol (1-3)



Friedelin (1-4)

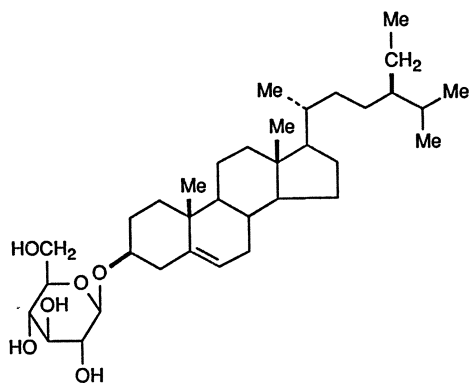


Stigmastane (1-5)

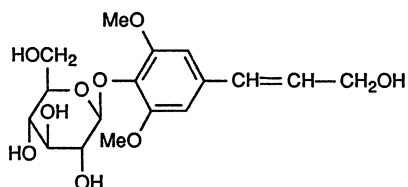


D:A-Friedooleanane (1-6)

The eleutherosides are glycosides with different aglycones. Thus, eleutheroside A (1-7) is a steroid glycoside with β -sitosterol as the aglycone; eutherosides I (1-13), K (1-14), L (1-15), and M (1-16) are triterpene glycosides with oleanolic acid as the aglycone; and eleutherosides D (1-11) and E (1-12) are epimeric syringaresinol diglycosides. The other eleutherosides are glycosides with simple aglycones. The most simple eleutheroside is eleutheroside C (1-10), which is ethyl α -D-galactopyranoside. Eleutheroside B is identical to syringin.



Eleutheroside A (1-7)



Eleutheroside B (1-8)