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Core Structure of Glycyrrhizan GA, the Main Polysaccharide from the Stolon of Glycyrrhiza glabra var. glandulifera; Anti-Complementary and Alkaline PhosphataseInducing Activities of the Polysaccharide and Its Degradation Products*

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The controlled Smith degradation and limited hydrolysis of glycyrrhizan GA, a representative polysaccharide with remarkable phagocytosis-enhancing activity isolated from the stolon of *Glycyrrhiza glabra* var. *glandulifera* Reg. et Herd. were carried out. Methylation analyses of the primary and the secondary Smith degradation products and of the limited hydrolysis product indicated that the core structural features of glycyrrhizan GA include a backbone chain composed of β -1,3-linked degradation products in the backbone carry side chains composed of β -1,3- and β -1,6-linked degradation products at position 6. Anti-complementary and alkaline phosphatase-inducing activities of the polysaccharide, periodate oxidation-reduction and the controlled Smith degradation product showed significant activity.

^{*} 本報告は Chem. Pharm. Bull., 40, 2487-2490 (1992) に発表.