



>>Entry Name: Lichenan

Synonym(s): β -Glucan. Lichenin. Moss starch

CAS Registry Number: 1402-10-4

Molecular Formula: $C_6H_{10}O_5$

Molecular Weight: 162.142

Accurate Mass: 162.052825

Percentage Composition: C 44.45%; H 6.22%; O 49.34%

Polymeric. Minimum formula given

Biological Source: Cell wall polysaccharide in the unicellular alga *Monodus subterraneus*. Also prod. by lichens

Biological Use/Importance: Antineoplastic agent

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D +18.4$ (H_2O)

Sigma: L9003

References:

Chand, N.B. *et al.*, *J.C.S.*, 1957, 1951

Perkin, A.S. *et al.*, *Can. J. Chem.*, 1962, **40**, 50

Fleming, M. *et al.*, *Biochem. J.*, 1966, **100**, 4P, (*struct*)

Ward, K. Jr. *et al.*, *The Carbohydrates*, Academic Press, 1970, **2A**, 413

Shibata, S., *J. Natl. Sci. Counc. Sri Lanka*, 1973, **1**, 183, (*rev*)

Gagnaire, D. *et al.*, *Tet. Lett.*, 1975, 3953

Gorin, P.A.J. *et al.*, *Carbohydr. Res.*, 1984, **128**, 119, (*bibl*)