



***Lotus tetragonolobus* [Lotus], Lotus-Biotin**

Origin	<i>Lotus tetragonolobus</i>
Sugar Specificity	L-fuc
Mitogen Activity	Non
Blood Specificity	H (O)
Structure	There are isolectins A, B, and C, where A and C are tetramer consisting of sub-units with a molecular weight of 27,800, and B is a dimer consisting of sub-units with a molecular weight of 27,000 ^{1) 2)} . The amino acid sequence has also been studied ³⁾ .
Feature	It binds strongly to LeY and weakly to LeX in the type 2 carbohydrate chain of the blood group antigen. It does not bind to type 1 carbohydrates (Lea, Leb) ⁴⁾ . It differs slightly from UEA-I lectins in specificity.
Storage	4°C for up to 1 year

Reference

- 1) Kalb, A., *Biochim. Biophys. Acta*, 168, 532 (1968)
- 2) Blumberg, S., et al., *Biochim. Biophys. Acta*, 264, 171 (1972)
- 3) Konami, Y., Yamamoto, K., Osawa, T., *FEBS Lett.*, 268, 281 (1990)
- 4) Pereira, M. E. A., Kabat, E. A., *Biochemistry*, 13, 3184 (1974)

For reserach use only. Not for clinical diagnosis.



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