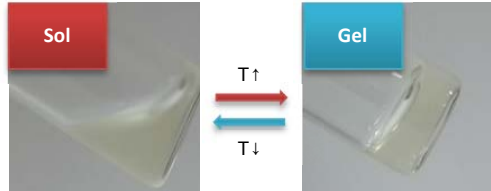


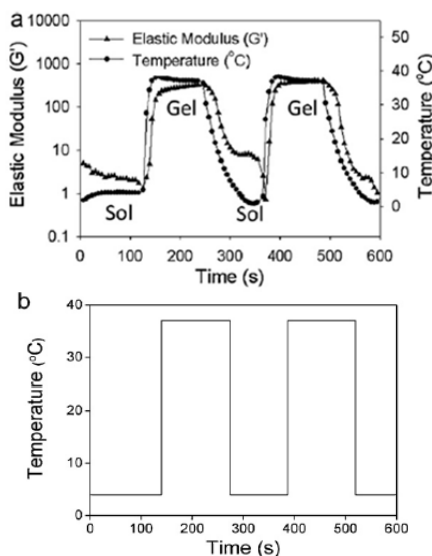
### **Product Information: Kito-6**

Kito-6 (glycol chitin 90% acetylated) is the latest thermogelling product to be provided by PolysciTech. In this product, chitosan, a natural polymer derived from crabshells, has had its properties carefully adjusted by chemically reacetylation to allow for it to dissolve directly in pH neutral water and behave as a thermogel. PolySciTech is the main distributor of this material, the data and graphs below were provided by the original manufacturer.

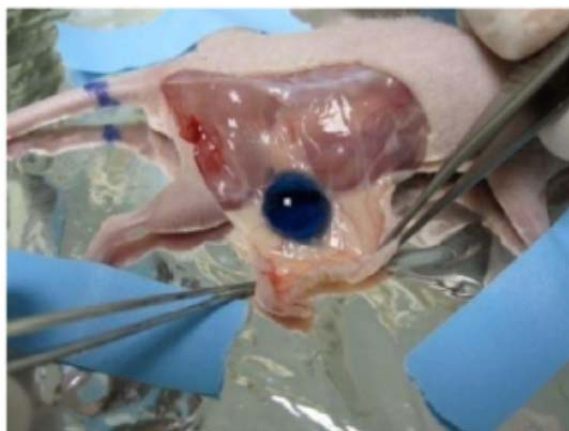


Degree of Acetylation (DA):90%  
In-Vitro Sol-Gel transition

Original Chitosan Properties  
Mw: 400kDa  
Appearance : Nearly white – pale brown, crystals- powder and granules  
CAS. NO : 39280-86-9  
Source: Wako Pure Chemical Industries, Ltd.



Elastic modulus (G') changes of glycol chitin hydrogel (91.59 DA, 7 wt%) with thermal cycles of heating (37 °C) and cooling (4°C).\*



In-vivo gelling of glycol chitosan injected into mouse model in 0.9% saline. Blue dye added to aid visibility.\*

\*-Li, Zhengzheng, et al. "Preparation and characterization of glycol chitin as a new thermogelling polymer for biomedical applications." *Carbohydrate polymers* (2012).