

Properties of alginates

Kelco International - Alginate dressing

Sample ID	\bar{M}_w (kDa)	Dependent \bar{M}_w (kDa)	\bar{M}_n (kDa)	Intrinsic viscosity (dL/g)	Apparent viscosity at fixed concentration (Pa·s)	pH	G (kcal/mol)
LV	17.0 (3)	1.8 (0.05)	1.7 (0.05)	2.5 (0.05)	70 (0.1)	5.5 (0.1)	5 (0.05)
HT	18.0 (0.05)	1.8 (0.05)	2.0 (0.2)	3.5 (0.1)	20 (0.2)	6.5 (0.05)	5 (0.1)
HD	18.0 (0.1)	1.8 (0.05)	3.0 (0.05)	11.5 (0.05)	45 (0.1)	7.0 (0.05)	5 (0.05)
HD	17.0 (0.5)	1.8 (0.05)	3.0 (0.1)	10.0 (0.05)	35 (0.1)	6.5 (0.1)	5 (0.05)

\bar{M}_w Weight average molecular weight, \bar{M}_n determined by GPC with right-angle light scattering.
 Dependent \bar{M}_w determined as a ratio of \bar{M}_w to the number average molecular weight (\bar{M}_n).
 Polydispersity index, \bar{M}_w/\bar{M}_n , is obtained by integrating under the curve calculated from the molecular weight (\bar{M}) and intrinsic viscosity by Einstein's viscosity equation.
 $\eta_{sp}/C = [\eta] + k'[\eta]^2C$ at each data point ($n=3$).
 Intrinsic viscosity was measured by relative viscosity.
 1% w/v NaCl and 0.1% and 0.01% w/v NaCl in water, measured by falling ball viscosity ($n=3$). Apparent viscosities at varying solution concentrations given in 1 Pa·s.
 The solution is aqueous water ($n=3$).
 From DSC analysis of 1% w/v solution and total monomers of acid hydrolysis (see Table 1) ($n=3$).
 Standard deviation in parentheses (number of replicates n) for each measurement are given in the parentheses. Similar specifications were used in each column report.
 Statistically significant differences between sample means with $p < 0.05$ by Student's t -test.
<https://doi.org/10.1016/j.jmb.2019.105173>

Description: -

-Properties of alginates

-Properties of alginates

Notes: First published 1955.

This edition was published in 1986



Filesize: 50.49 MB

Tags: #Alginate #Impression: #Advantages, #Manipulation, #Properties

The structure and properties of alginate

Fusion between fibre science and space technologies, optics, and pharmacy will be inevitable in the coming future.

ALGINATE FIBRES

International Journal of Biological Macromolecules 2019, 136 , 704-728. Biomimetic sulfated glycosaminoglycans maintain differentiation markers of breast epithelial cells and preferentially inhibit proliferation of cancer cells. Mofarah, Wei Yang, Anthony Chun Yin Yuen, Muhammad Tariq Nazir, Guan Heng Yeoh.

Alginate

PROPERTIES OF SORBALGON Sorbalgon consists primarily of fibres of calcium alginate rich in mannuronic acid. The gel formed is highly hydrophilic, which limits wound secretions and minimizes bacterial contamination. In contrast, the calcium alginate decreased fibroblast motility but had no effect on keratinocyte motility.

Heparin

Chemically, alginate is a polymeric acid, composed of two monomer units L-guluronic acid G D- mannuronic acid M Sloughy pressure ulcer wound High G Alginates: For the High-G calcium alginate fibres extracted from the stems of the seaweed , the calcium binding ability of the fibre is strong and the ion exchange process between the fibre and the wound exudates is slow. The results showed that the modified alginate scaffold exhibited high cell viability and could significantly promote osteoblast-like cell proliferation.

Alginate. Dental Material

London, Macmillan Magazines Ltd, 1993:35-7.

Related Books

- [MacDonalds stage coaches and stations, eastern Oregon, 1850-1920](#)
- [Jawlah mā'a udabā' Shamāl Afriqiya.](#)
- [Alte Wunder wieder scheinen - Gedichte der deutschen Romantik](#)
- [Uranium Geology of the Eastern Baker Lake Basin, District of Keewatin, Northwest Territories.](#)
- [Toréador](#)