

- Akutu M → Takahashi R
Akutu M, Kubota K, Nakamura K:
Light scattering, sound velocity
and viscoelastic behavior of aqueous
gellan solutions 56
Annaka M, Honda J-I, Nakahira T,
Seki H, Tokita M: Multinuclear NMR
study on the sol-gel transition of
gellan gum 25
Asai I → Omoto T
Chen YL → Morrison NA
Clark RC → Morrison NA
Gunning AP → Morris VJ
Hatakeyama H → Hatakeyama T
Hatakeyama T, Nakamura K, Takahashi
M, Hatakeyama H: Phase transitions
of gellan-water systems 98
Hiraoki T → Tsutsumi A
Honda J-I → Annaka M
Huang Z → Matsukawa S
Ishii F → Tsutsumi A
Izumi Y, Saito S, Soma K: Differential
scanning calorimetry and structural
studies of the sol-gel transition
of gellan gum in water 48
Kajiwara K → Yuguchi Y
Kasapis S → Sworn G
Kirby AR → Morris VJ
Kitamura S → Yuguchi Y
Kubota K → Akutu M
Kubota K → Takahashi R
Masuda T → Takigawa T
Matsukawa S, Huang Z, Watanabe T:
Structural change of polymer
chains of gellan monitored by
circular dichroism 92
Matsukawa S, Tang Z, Watanabe T:
Hydrogen-bonding behavior of
gellan in solution during structural
change observed by
¹H NMR and circular dichroism
methods 15
Miyoshi E, Nishinari K: Effects of sugar
on the sol-gel transition in gellan
gum aqueous solutions 83
Miyoshi E, Nishinari K: Rheological and
thermal properties near the
sol-gel transition of gellan gum
aqueous solutions 68
Morris ER, Richardson RK, Whittaker
LE: Rheology and gelation of deacylated
gellan polysaccharide with
Na⁺ as the sole counterion 109
Morris VJ, Kirby AR, Gunning AP: A
fibrous model for gellan gels from
atomic force microscopy studies 102
Morrison NA, Sworn G, Clark RC, Chen
YL, Talashek T: Gelatin alternatives
for the food industry 127
Nakahira T → Annaka M
Nakajima K → Takigawa T
Nakamura K → Akutu M
Nakamura K → Hatakeyama T
Nakamura K → Takahashi R
Nishinari K → Miyoshi E
Ogawa E: Temperature dependence of
the conformational properties
of sodium-type gellan gum
in aqueous solutions 8
Okada M → Tsutsumi A
Omoto T, Uno Y, Asai I: The latest
technologies for the application
of gellan gum 123
Ozawa T → Tsutsumi A
Richardson RK → Morris ER
Saito S → Izumi Y
Sakai T → Shinyashiki N
Seki H → Annaka M
Shinyashiki N, Sakai T, Yamada G,
Yagihara S: Dielectric study on the
dynamics of an aqueous solution
of gellan gum 36
Soma K → Izumi Y
Sworn G → Morrison NA
Sworn G, Kasapis S: Molecular origins of
the rheology of high-sugar gellan
systems 116
Takahashi M → Hatakeyama T
Takahashi R, Akutu M, Kubota K,
Nakamura K: Characterization of
gellan gum in aqueous NaCl
solution 1
Takigawa T, Nakajima K, Masuda T:
Rheological properties of the
gellan/water system 62
Talashek T → Morrison NA
Tang Z → Matsukawa S
Tokita M → Annaka M
Tsutsumi A, Ozawa T, Okada M,
Hiraoki T, Ishii F: Electron spin
resonance study on the sol-gel
transition of gellan gum aqueous
solution by the addition of para-
magnetic metal-ions 31
Uno Y → Omoto T
Urakawa H → Yuguchi Y
Watanabe T → Matsukawa S
Wataoka I → Yuguchi Y
Whittaker LE → Morris ER
Yagihara S → Shinyashiki N
Yamada G → Shinyashiki N
Yuguchi Y, Urakawa H, Kitamura S,
Wataoka I, Kajiwara K: The sol-gel
transition of gellan gum aqueous
solutions in the presence of various
metal salts 41

- Activation energy 116
Aqueous solution 8, 31
Atomic force microscopy 102
Circular dichroism 15, 92
Coil-helix transition 36, 56, 92, 109
Conformational transition 8
Dielectric relaxation 36
Differential scanning calorimetry 41, 48, 68, 83
Distribution function 116
Electron spin resonance 31
Food application 123
Gelatin 127
Gelation 102, 109
Gel structure 41
Gellan 62, 102, 116, 127
Gellan gum 1, 8, 15, 25, 31, 36, 41, 48, 56, 68, 83, 98, 123
Gellan polysaccharide 109
Gels 102
Group I cation 25
Helix-coil transition 15
Helix-helix transition 109
Hydrogen bonding 15
Ion-exchanged gellan solution 92
Lamellae 48
Light scattering 1, 56
Line shape analysis 31
Microgel 123
Mn(II)-induced sol-gel transition 31
Molecular-weight distribution 1
Multinuclear NMR 25
NMR relaxation time 92
Nuclear magnetic resonance 15
Oscillatory measurement 68, 83
Osmometry 8
Phase diagram 98
Polysaccharide 92
Pseudomonas elodea 123
Restructured food 123
Rheology 62, 109
Salt 68
Small-angle X-ray scattering 41, 48
Sol 62
Sol-gel transition 25, 36, 68, 83
Sound velocity 56
Stiffness 1
Structure of gels 48
Sugar 83, 116
Temperature dependence 62
Viscoelasticity 56
Viscometry 8
Vitrification 116
Water 36, 98
Wormlike chain 1
Zero-shear viscosity 62