

Ultrasound- and Temperature-Induced Gelation of Gluconosemicarbazide Gelator in DMSO and Water Mixtures

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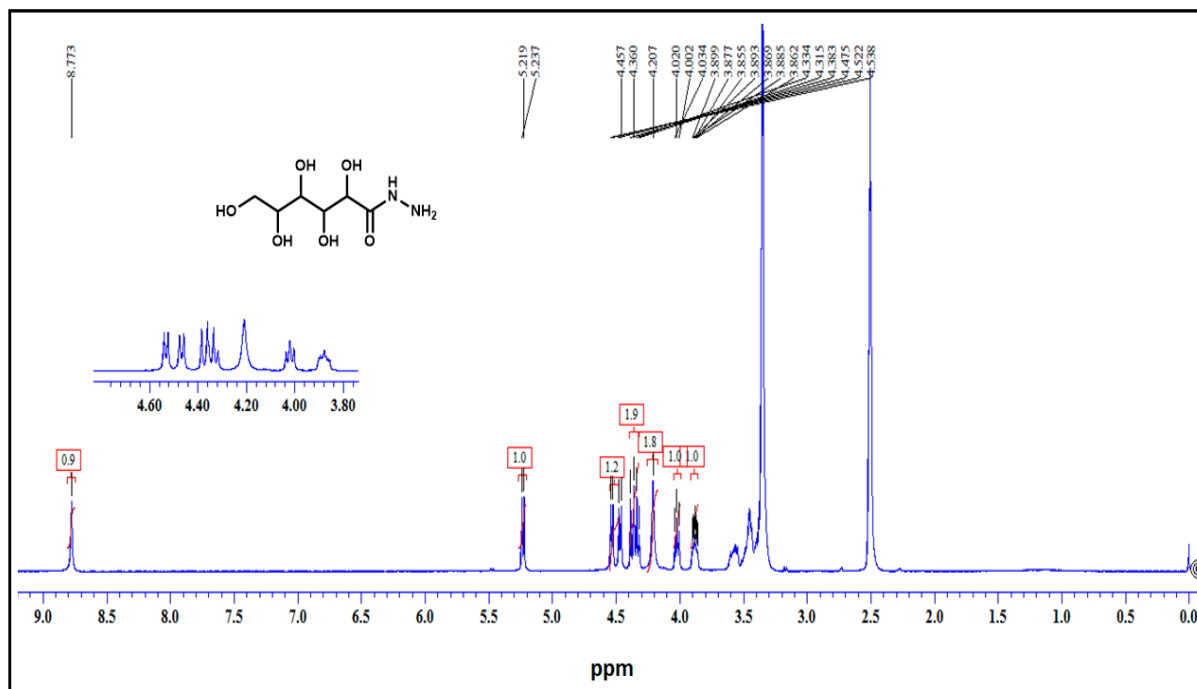


Figure S1. ¹H NMR spectrum of gluconohydrazide gelator.

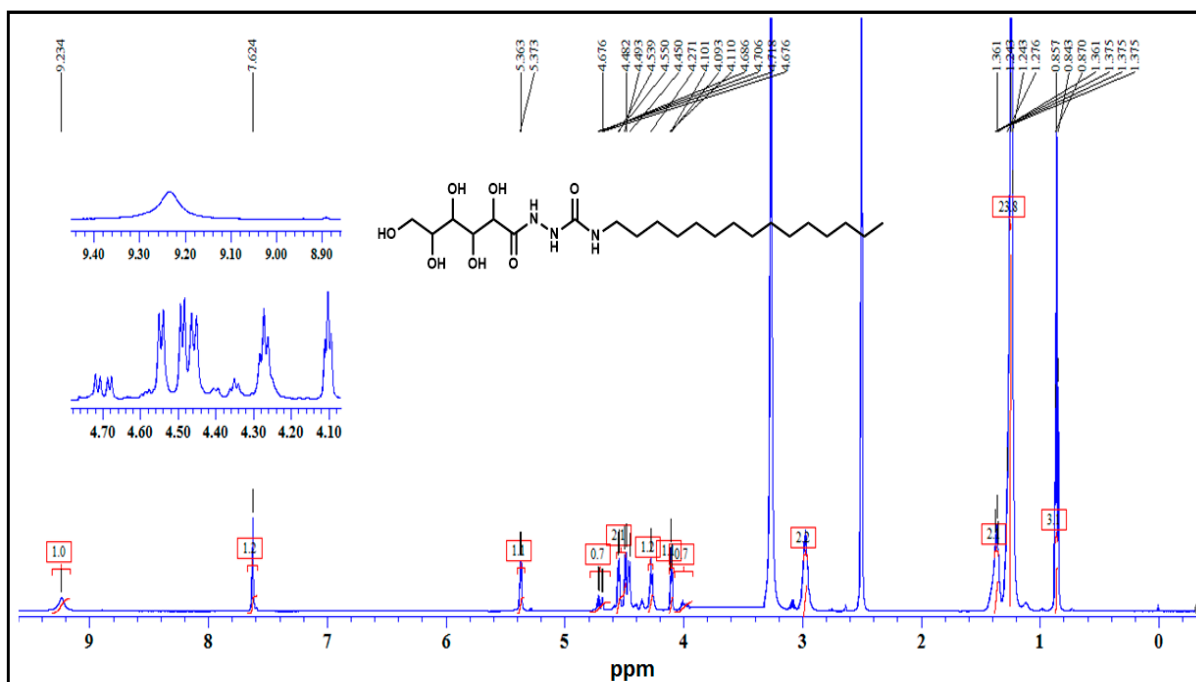


Figure S2. ¹H NMR spectrum of gluconosemicarbazide gelator.

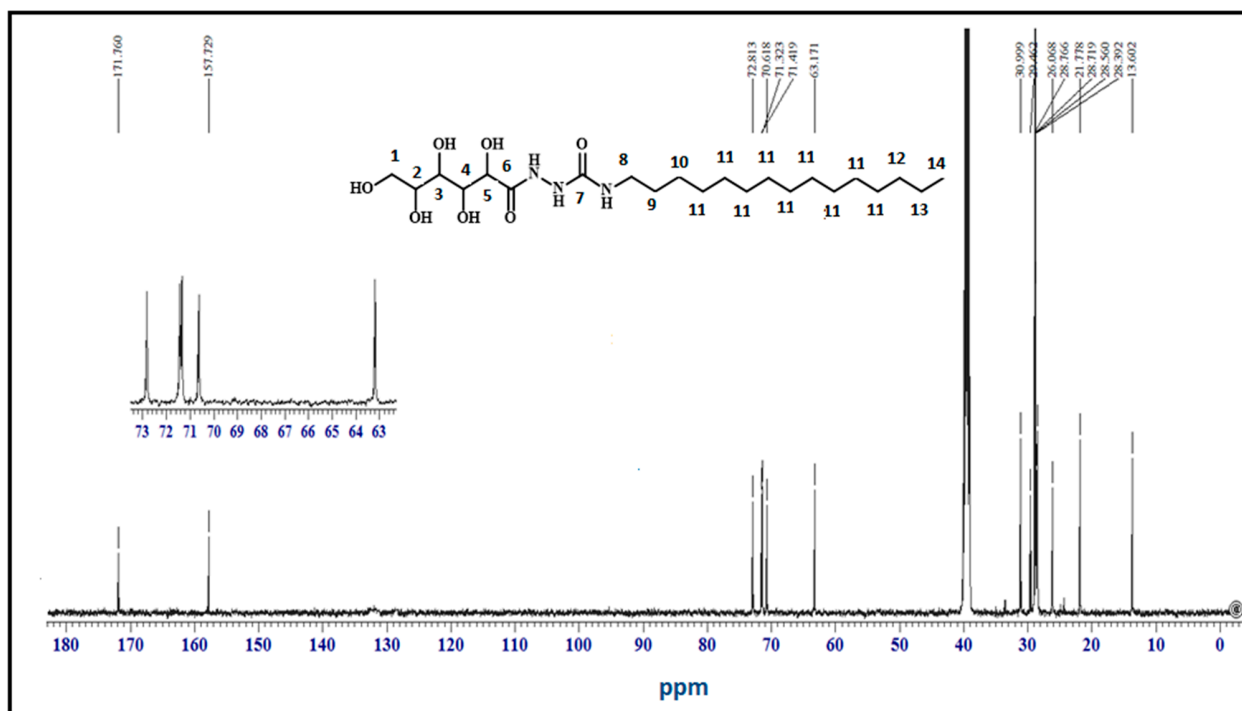


Figure S3. ¹³C NMR spectrum of gluconosemicarbazide gelator in DMSO-d₆.

Table S1. Gelation properties of C₁₆ gelator [solvent:water = 80:20 (*v/v*)].

Serial No	Medium	MGC (mg/mL)	Time of Gelation (min)
1	DMSO + H ₂ O	25	30
2	NMP + H ₂ O	20	30
3	DMF + H ₂ O	25	30
4	DMSO	60	360
5	DMAC + H ₂ O	30	50
6	Buffer PH-5.5 *	30	25
7	Buffer PH-7.4 *	32	120
8	Buffer PH-8.0 *	30	40
9	Buffer PH-12 *	35	30

DMSO, dimethyl sulfoxide; DMF, dimethyl formamide; NMP, *N*-methyl pyrrolidone; DMAc, *N,N*-dimethyl acetamide; DMF, *N,N*-dimethyl formamide. * Buffer solutions and their composition:

Code	Composition
Buffer PH-5.5	100 mL of 0.1 M Potassium hydrogenphthalate + 73.2 mL of 0.1 M sodium hydroxide
Buffer PH-7.4	100 mL of 0.1 M potassium hydrogenphosphate + 78.2 mL of 0.1 M sodium hydroxide
Buffer PH-8.0	100 mL of 0.1 M potassium hydrogenphosphate + 93.4 mL of 1 M sodium hydroxide
Buffer PH-12	100 mL of 0.05 M disodium hydrogenphosphate + 53.8 mL of 0.1 M of sodium hydroxide