

# Supporting Information:

## Comprehensive NMR Analysis of Pore Structures in Superabsorbing Cellulose Nanofiber Aerogels

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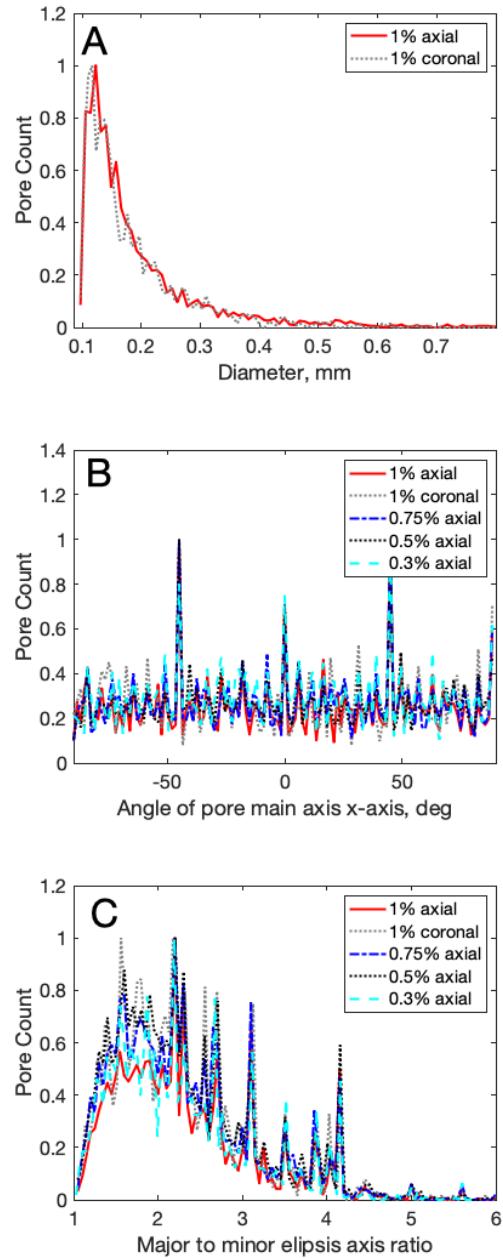


Figure S1. (A) Distributions of pore diameters for 1% sample measured in axial and coronal plane. (B) Distribution of orientation of main axis of pore to the x-plane. (C) Distribution of ratio of major to minor axis of pore.

Sample	0.3%			0.5%			0.75%			1%		
	Value	Upper limit	Lower limit									
Mean Diameter from Cryoporometry (nm)	99.7	212	46.6	108.7	212	53.6	101.1	212	53.6	93.5	212	46.6
Median Diameter from Cryoporometry (nm)	97.1			97.1			97.1			76.4		
Diameter from Diffusometry ( $\mu\text{m}$ )	4.9	5.7	4.1	4.4	5.1	3.7	3.03	3.3	2.7	2.5	2.8	2.1
Mean Diameter from SEM ( $\mu\text{m}$ )	3.1	24.1	0.7	2.8	24.5	0.7	2.1	24.7	0.7	1.8	23.6	0.7
Median Diameter from SEM ( $\mu\text{m}$ )	1.6	24.1	0.7	1.57	24.5	0.7	1.2	24.7	0.7	1.1	23.6	0.7
Mean diameter from MRI ( $\mu\text{m}$ )	201.3	1158.8	95.2	202.1	1487.4	95.2	199.6	1086.9	95.2	189.4	1123.0	95.3
Median diameter from MRI ( $\mu\text{m}$ )	161.3			161.1			158.4			151.4		
Mean diameter from optical microscope ( $\mu\text{m}$ )	206.1	383.7	129.1	200.3	371.5	110.3	209.8	411.3	117.7	143.2	183.1	109.1
Median diameter from optical microscope ( $\mu\text{m}$ )	203.7			172.9			174.9			137.4		

Table S1. Summary of pore sizes from all methods used.