

# Biobased cryogels from enzymatically oxidized starch: functionalized materials as carriers of active molecules

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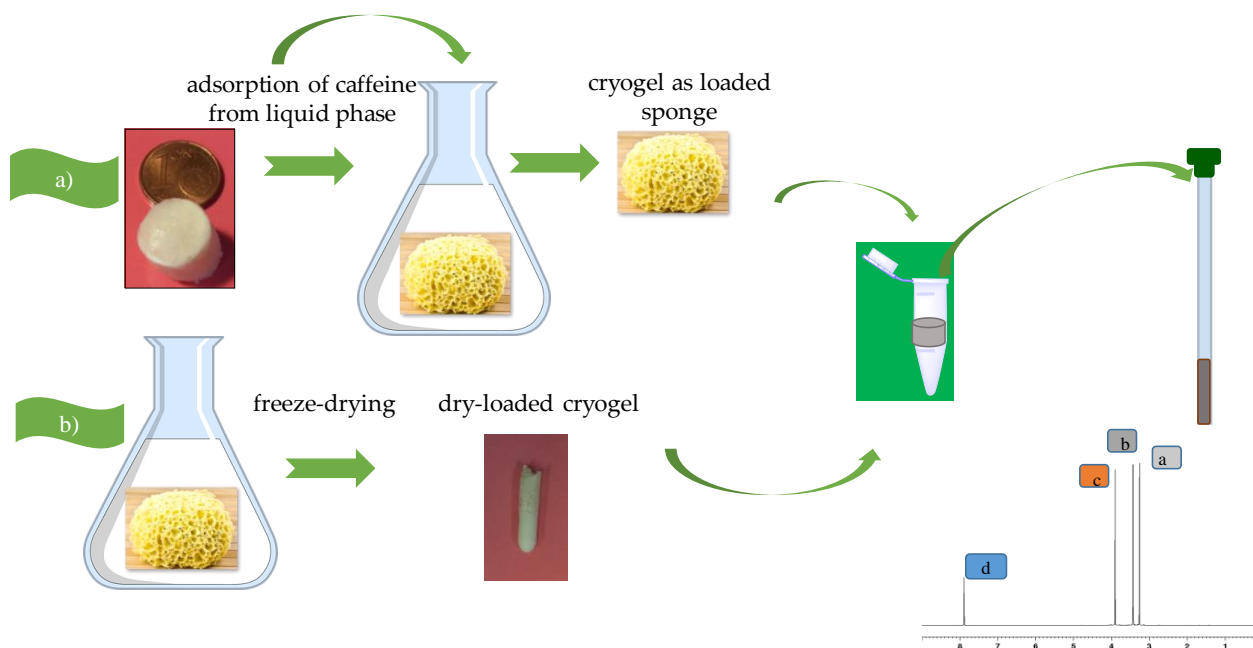
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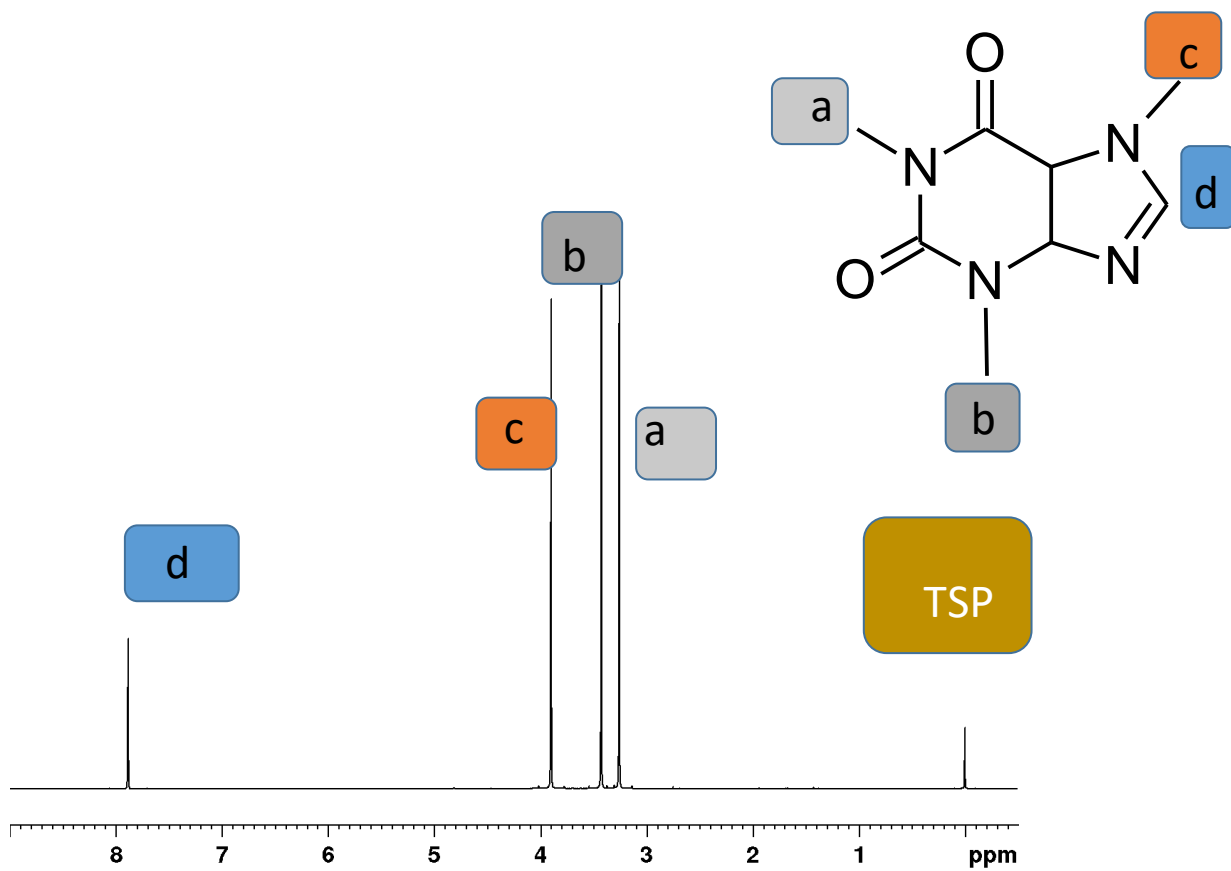
**Table S1.** Peculiar chemical shifts for  $^1\text{H}$  species of modified PS

$^1\text{H}$	Chemical shift <sup>1</sup>
H-1	5.11
H-2	4.76
H-3	5.16
H-4,5	3.90 – 4.10
H-6	4.56 – 4.60
H <sub>ald</sub>	9.23-9.28

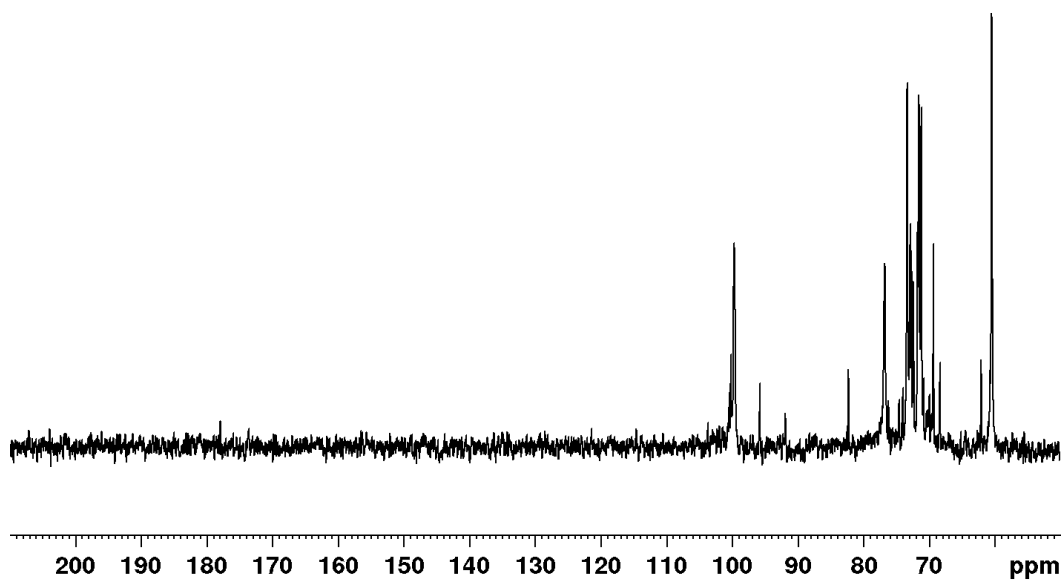
<sup>1</sup> Chemical shifts are expressed in ppm



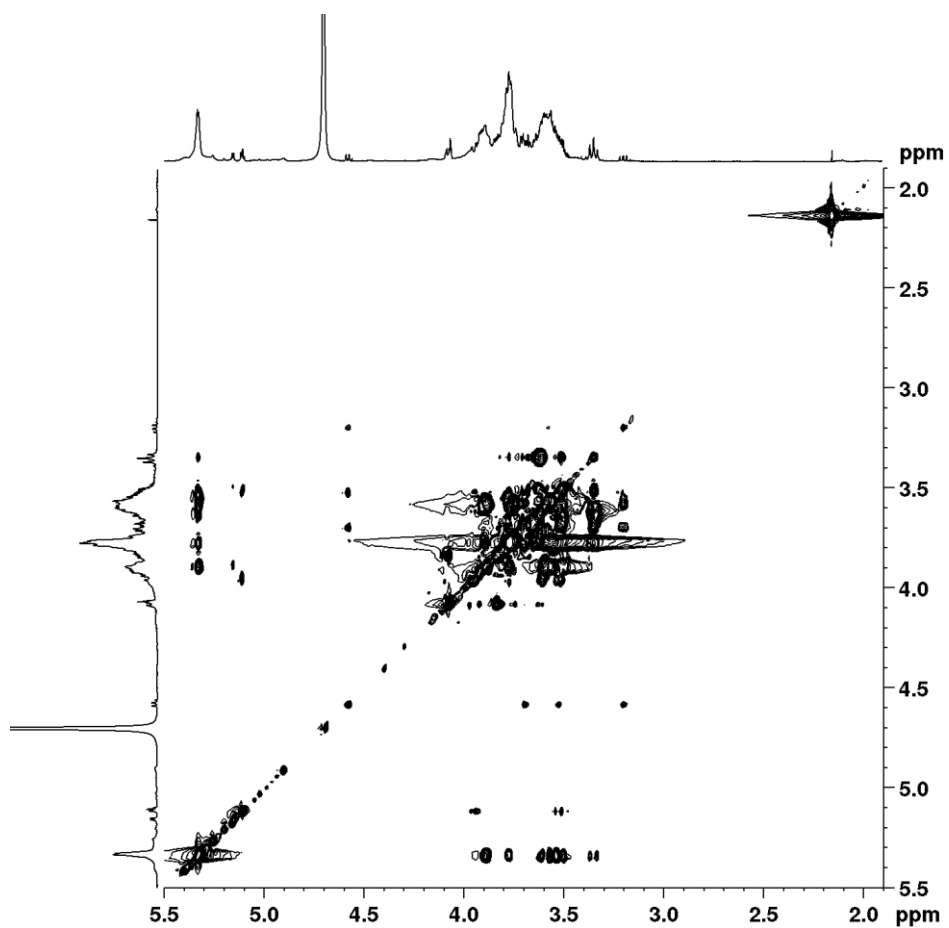
**Figure S1.** Experimental scheme illustrating the procedure for sorption/desorption of caffeine.



**Figure S2.**  $^1\text{H}$  NMR spectrum of caffeine, recorded at 298 K, in  $\text{D}_2\text{O}$ .



**Figure S3.**  $^{13}\text{C}$  NMR spectrum of partially oxidized pea starch, (sample C), recorded at 298 K, in  $\text{D}_2\text{O}$ .



**Figure S4.**  $^1\text{H}$ - $^1\text{H}$  TOCSY spectrum of partially oxidized pea starch, (from sample C), recorded at 298 K, in D<sub>2</sub>O.