

## Supporting Information

# Bio-CaRGOS: Capture and Release Gels for Optimized Storage of hemoglobin

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<b>FIGURE S1</b> .....	<b>2</b>
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<b>FIGURE S4</b> .....	<b>5</b>
<b>FIGURE S5</b> .....	<b>5</b>

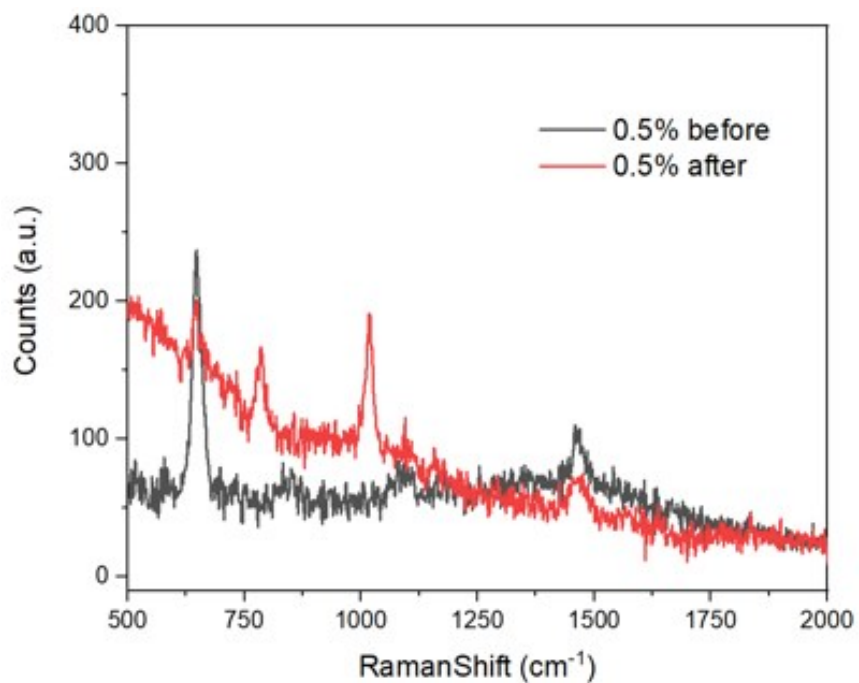


Figure S1. Complete hydrolysis of 0.5 v/v % tetramethyl orthosilicate (TMOS) was demonstrated by Raman spectra with a elimination of TMOS peak (646 cm<sup>-1</sup>) and formation of methanol peak (1030 cm<sup>-1</sup>) after a standard microwave synthesis.

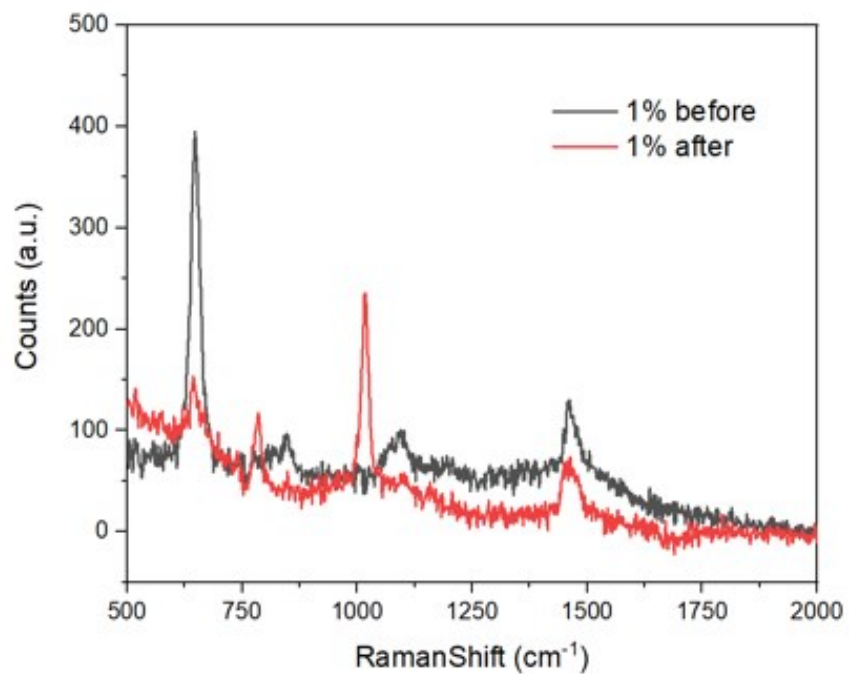


Figure S2. Complete hydrolysis of 1.0 v/v % tetramethyl orthosilicate (TMOS) was demonstrated by Raman spectra with a elimination of TMOS peak (646 cm<sup>-1</sup>) and formation of methanol peak (1030 cm<sup>-1</sup>) after a standard microwave synthesis.

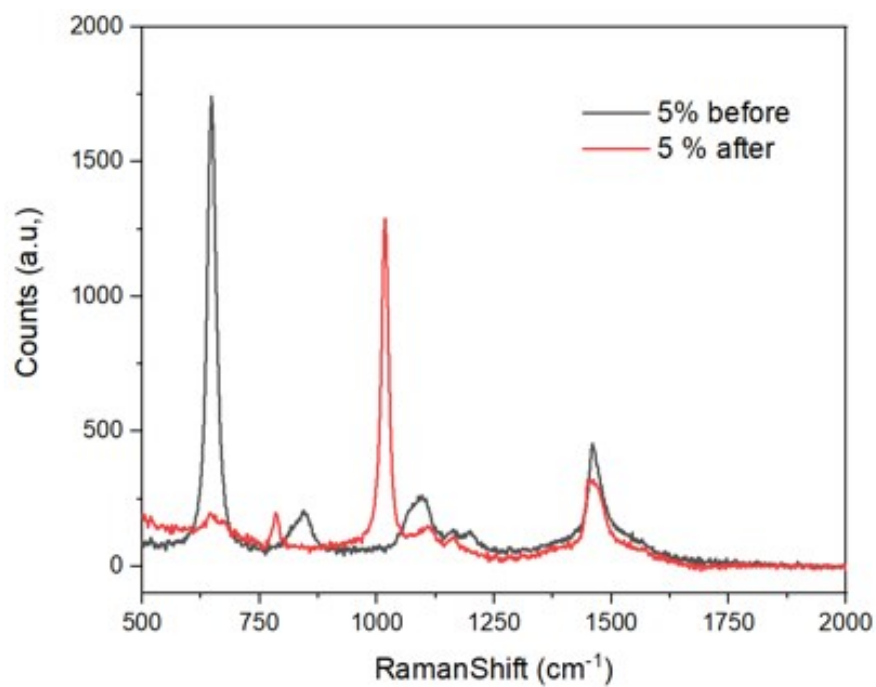


Figure S3. Complete hydrolysis of 5.0 v/v % tetramethyl orthosilicate (TMOS) was demonstrated by Raman spectra with a elimination of TMOS peak (646 cm<sup>-1</sup>) and formation of methanol peak (1030 cm<sup>-1</sup>) after a standard microwave synthesis.

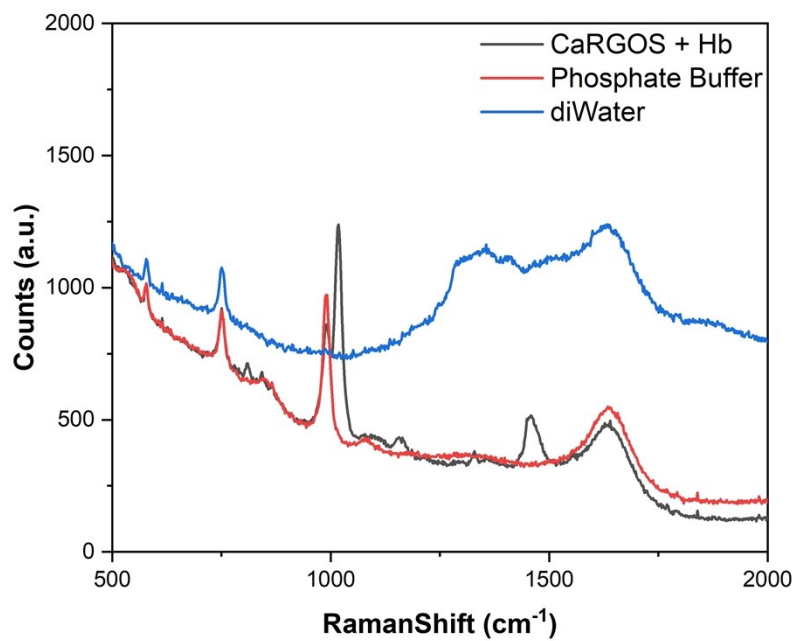


Figure S4. Raman spectra of CaRGOS formulations (5.0 v/v %) with hemoglobin and control solutions (phosphate buffer and Deionized water).

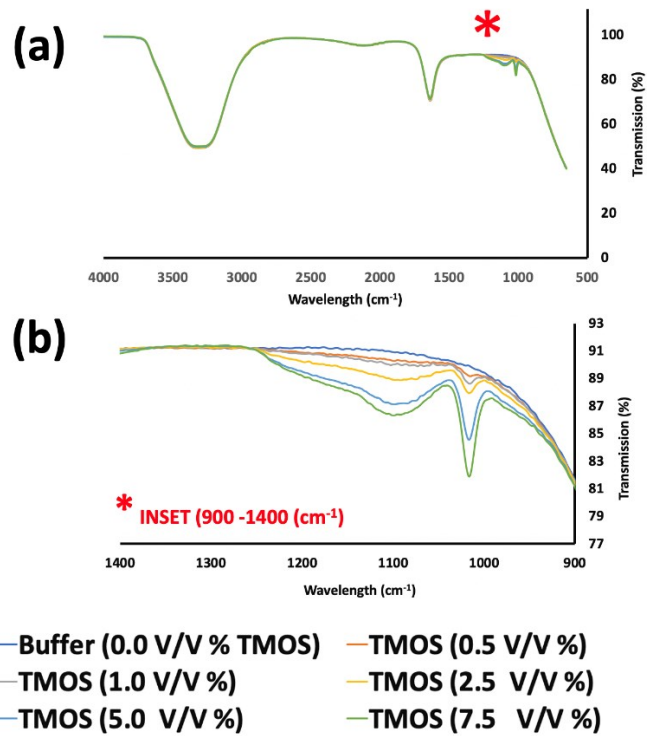


Figure S5. Figure 1: TMOS gel formation as displayed by FT-IR (ATR) spectra at (A) 500 -4000  $\text{cm}^{-1}$  (B) TMOS region (900-1400)  $\text{cm}^{-1}$ .