

## Supporting Information

### **Sol-gel Entrapped Light Harvesting Antennas: Immobilization and Stabilization of Chlorosomes for Energy Harvesting**

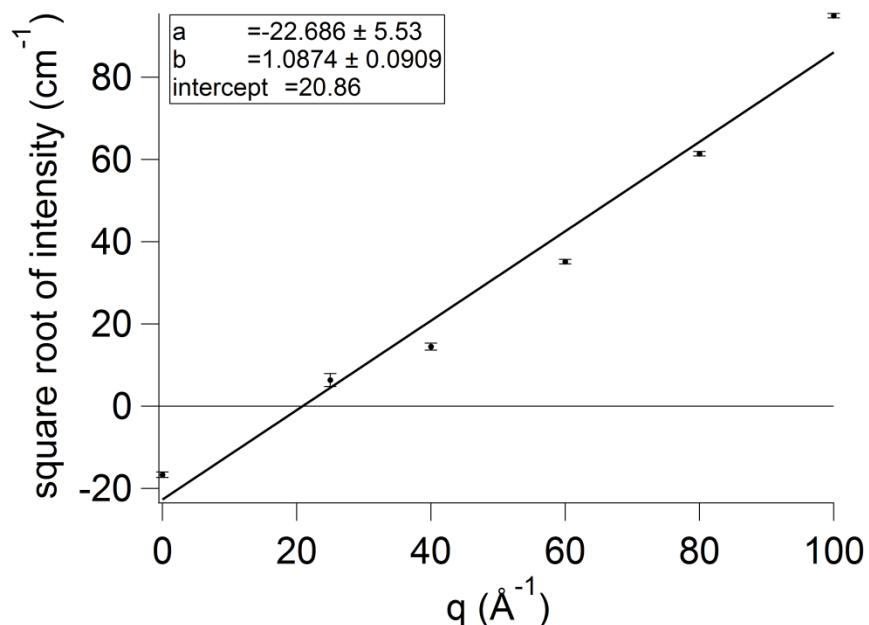
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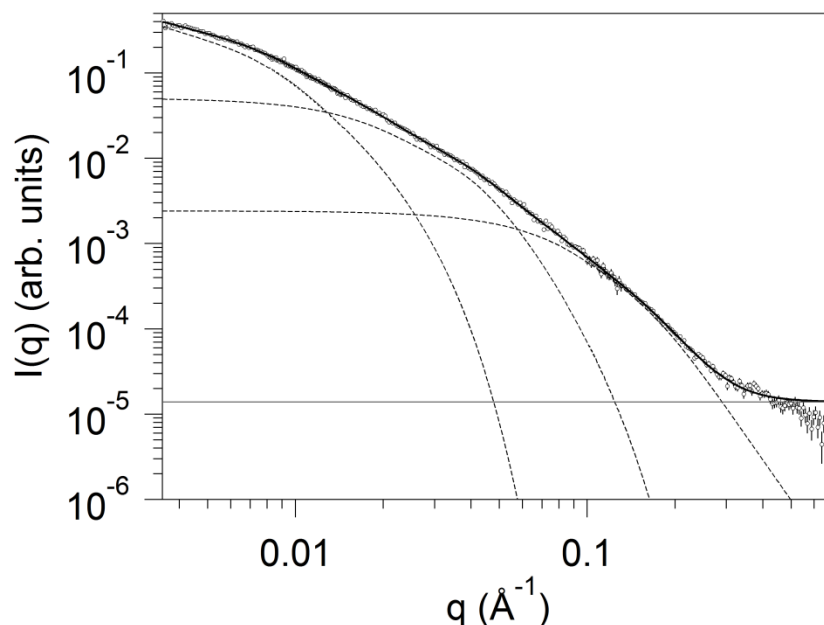
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**Figure S1. Determination of chlorosome contrast match point from variation series data.** The variation series was previously reported by Tang et al.<sup>1</sup> The x-intercept indicates a contrast match point at  $\sim 21\%$  D<sub>2</sub>O.



**Figure S2. Fit of SANS data from FH control gel in 100% D<sub>2</sub>O.** Scattering data are shown as open circles. The broken lines are the intensities calculated for each level in the Beaucage-type model<sup>2,3</sup> which when added to the incoherent background (thin solid line) sum to give the total calculated intensity (thick solid line).

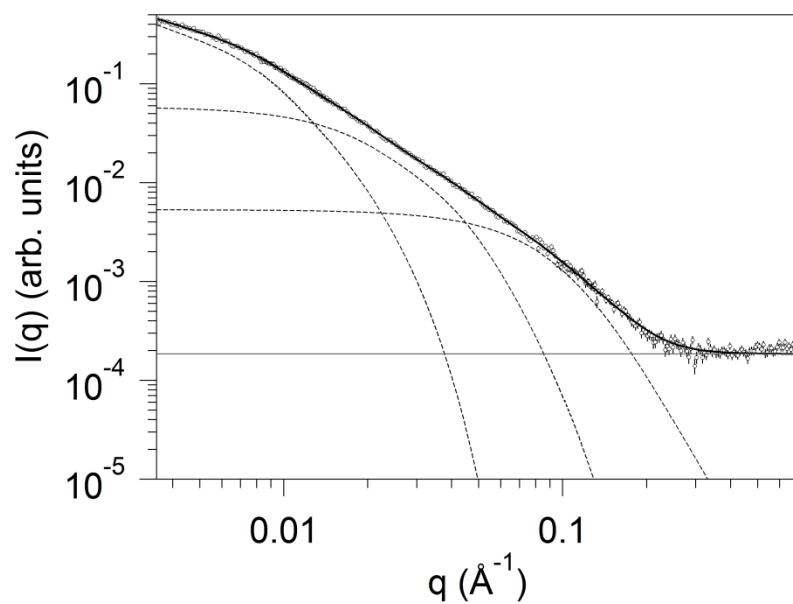


Figure S3. Fit of SANS data from FH control gel in 20%  $D_2O$ .

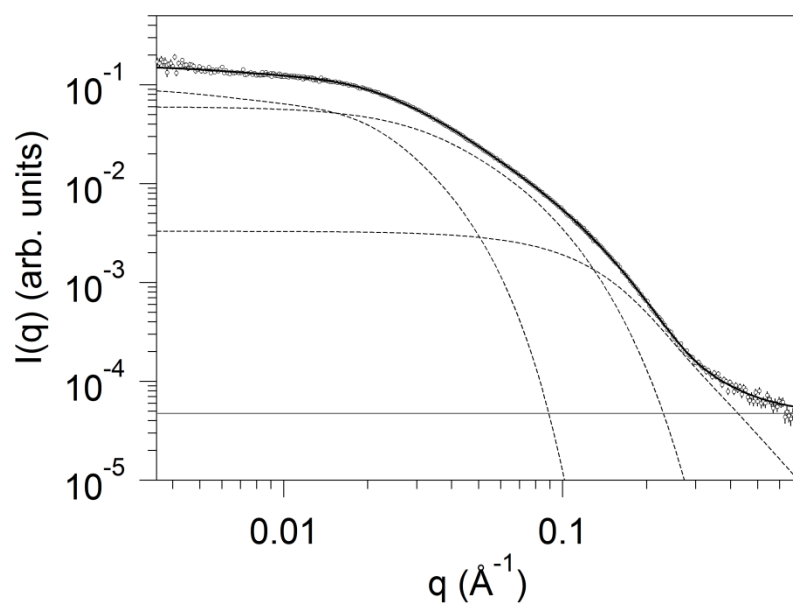


Figure S4. Fit of SANS data from PH control gel in 100%  $D_2O$ .

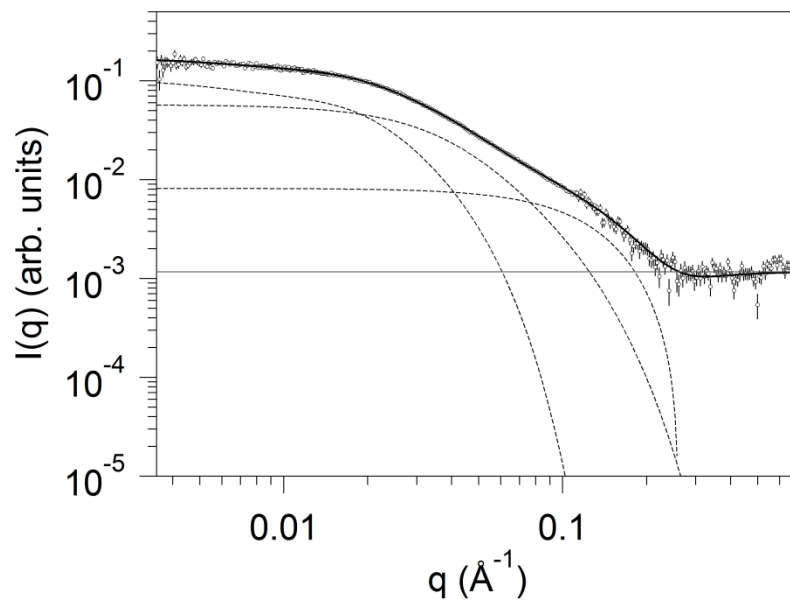


Figure S5. Fit of SANS data from PH control gel in 20%  $D_2O$ .

### References

- (1) Tang, K. H.; Urban, V. S.; Wen, J. Z.; Xin, Y. Y.; Blankenship, R. E. *Biophysical Journal* **2010**, *99*, 2398-2407.
- (2) Beaucage, G. *Journal of Applied Crystallography* **1996**, *29*, 134-146.
- (3) Beaucage, G. *Journal of Applied Crystallography* **1995**, *28*, 717-728.