

## Supporting Information

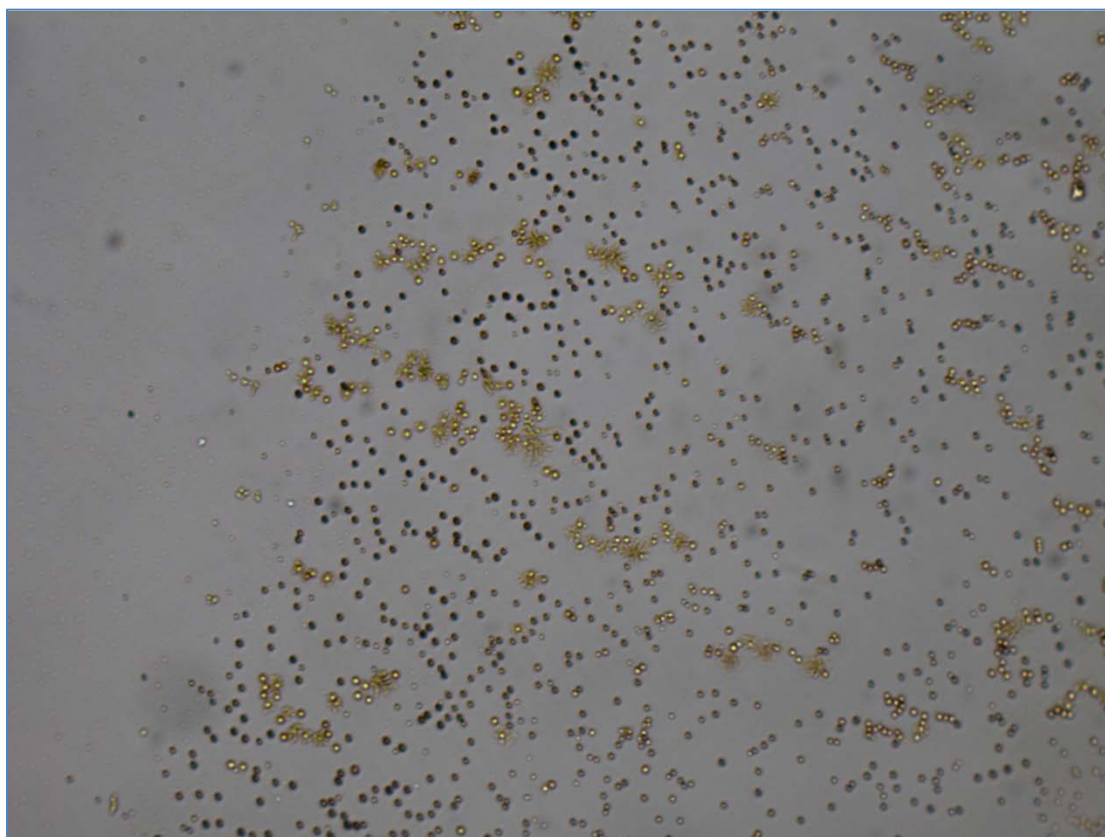
### Rapid and simple colorimetric test for 2,2,2-Cryptand (Kryptofix 2.2.2.) in solution.

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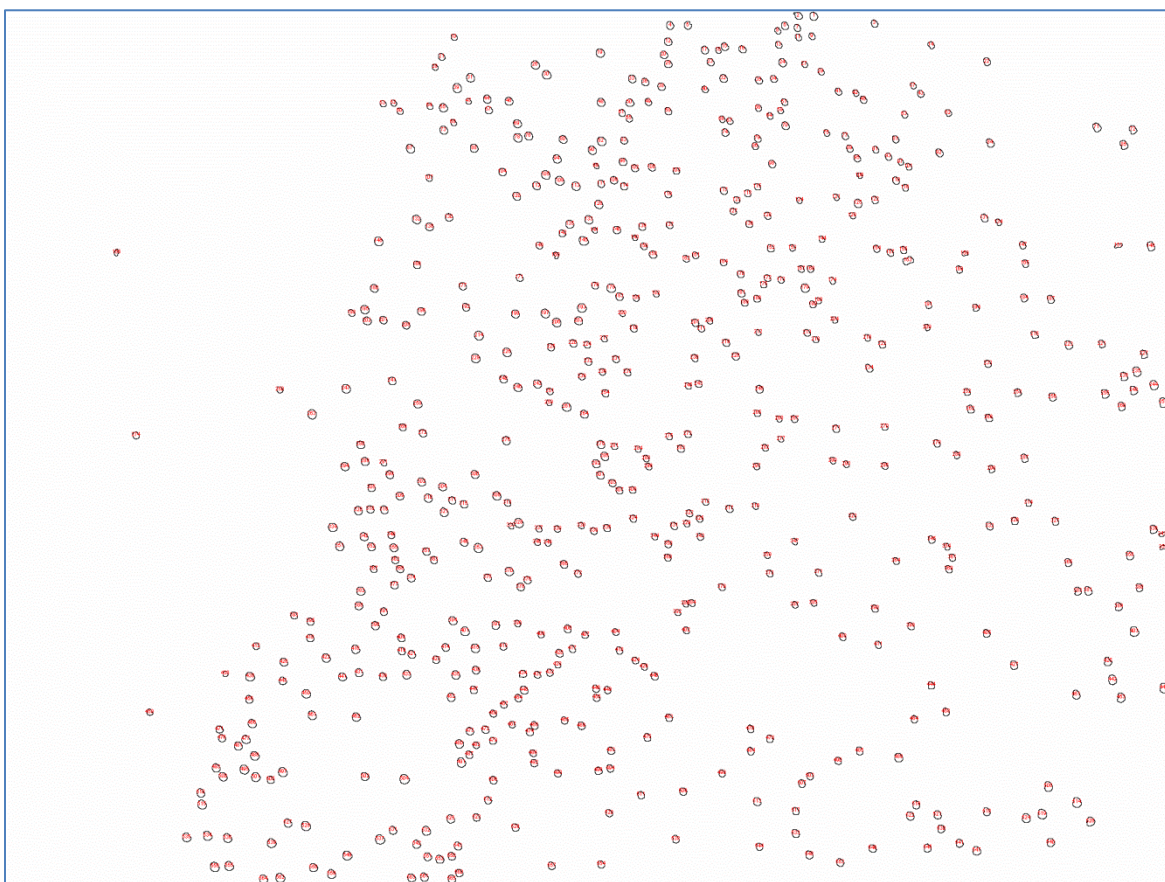
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#### Optical Microscopy:

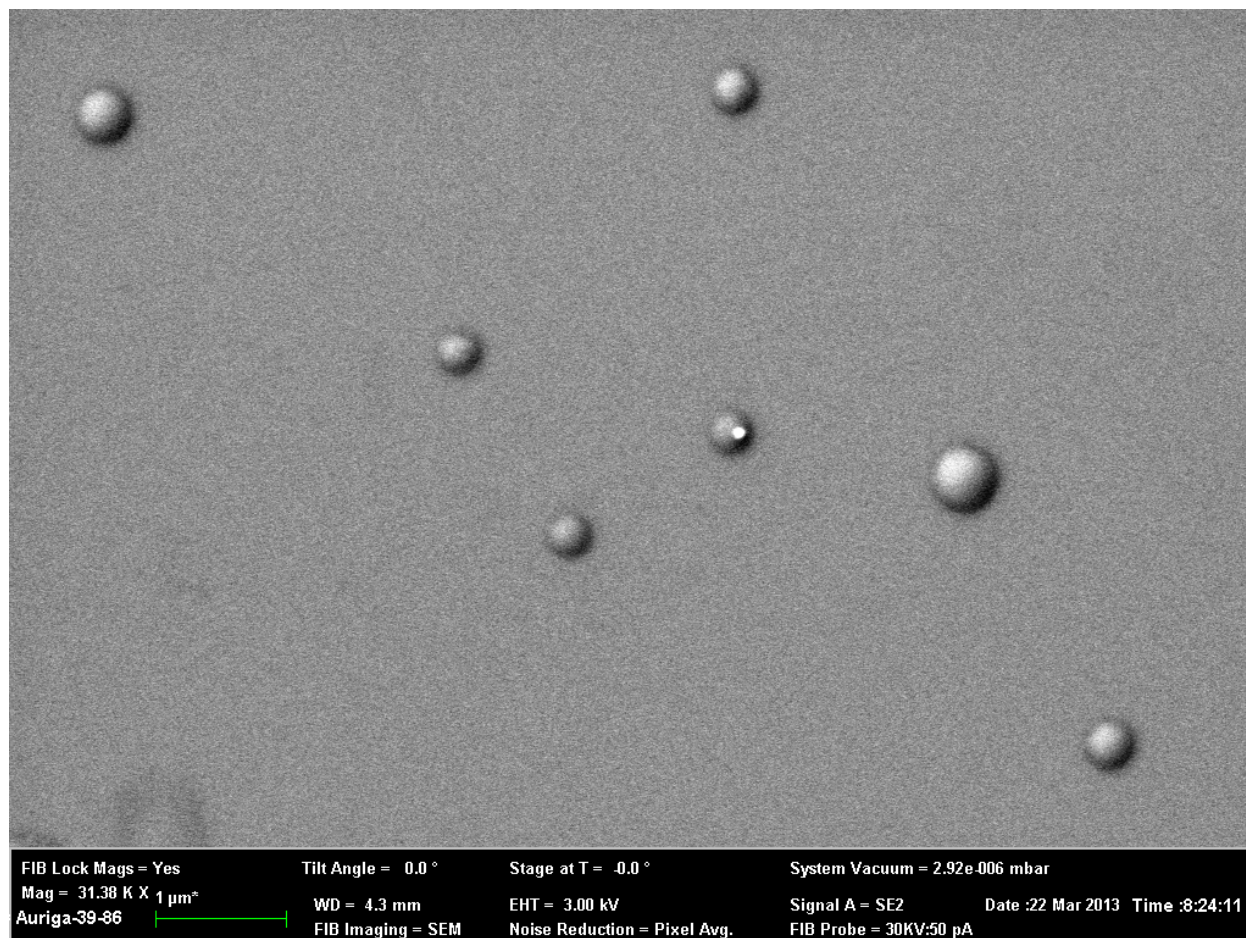


**Figure S1:** optical microphotograph of the suspension formed when  $I_2/I^-$  is mixed with 2,2,2-Cryptand solution (50 ppm).



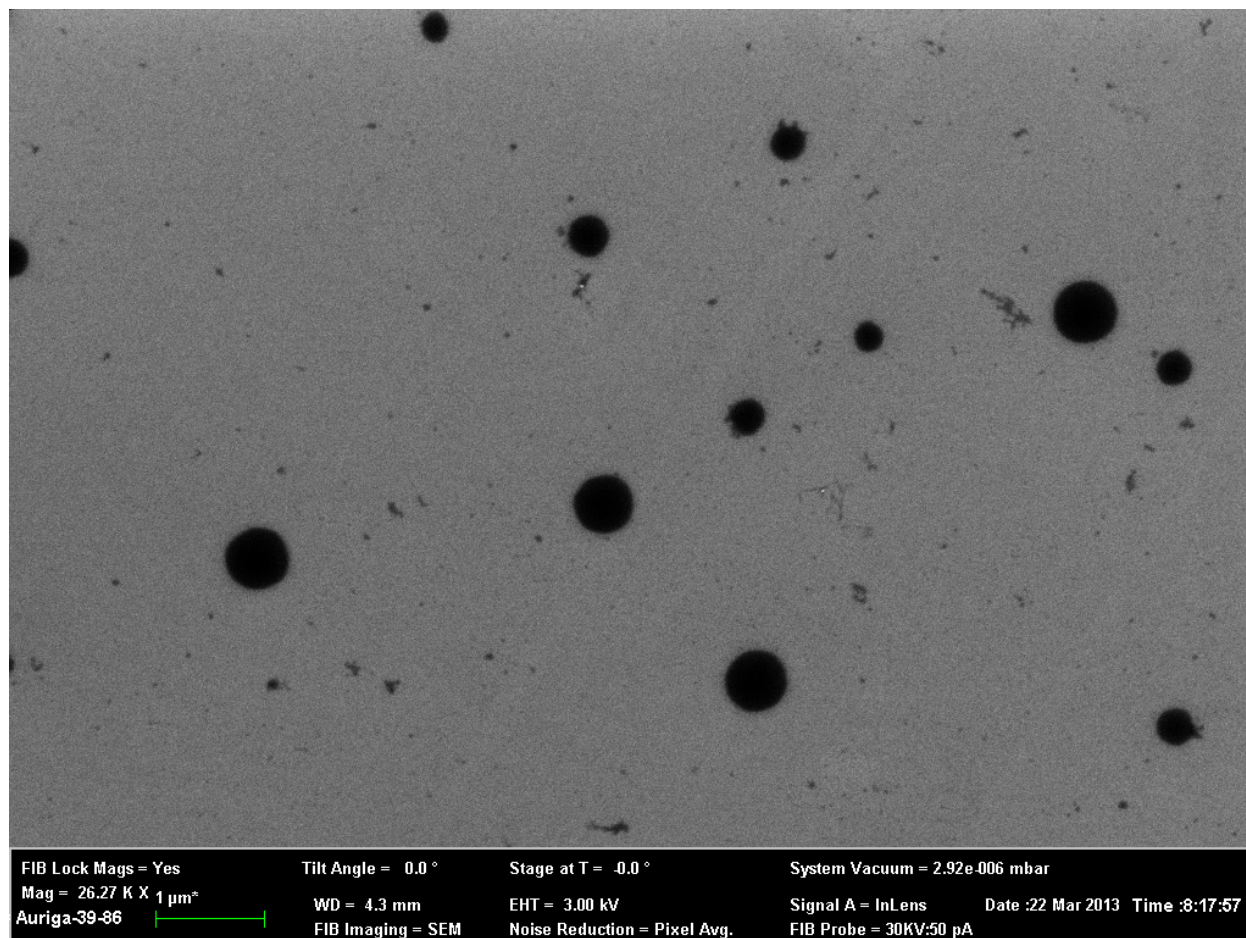
**Figure S2:** Example of the particle sampling plan used for particle size measurement applied to the microphotograph showed in S1.

## Scanning Electronic Microscopy

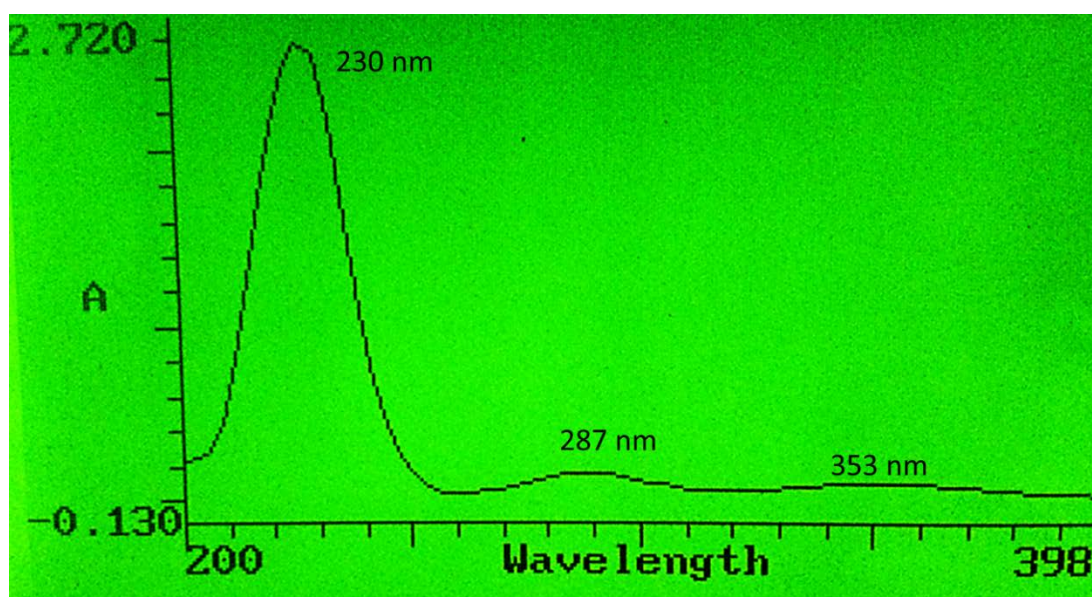


**Figure S3:** Example of the SEM microphotograph from the suspension formed when I<sub>2</sub>/I<sup>-</sup> is mixed with 2,2,2-Cryptand solution (50 ppm).





**Figure S4:** Another view SEM microphotograph from the suspension formed when I<sub>2</sub>/I<sup>-</sup> is mixed with 2,2,2-Cryptand solution (50 ppm).



**Figure S5:** UV-vis spectrum for the  $I_2/I^-$  solution prior to mixture with 2,2,2-Cryptand solution.