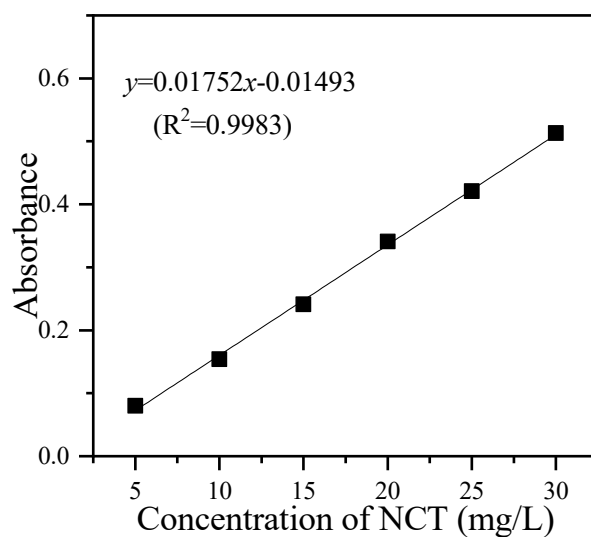
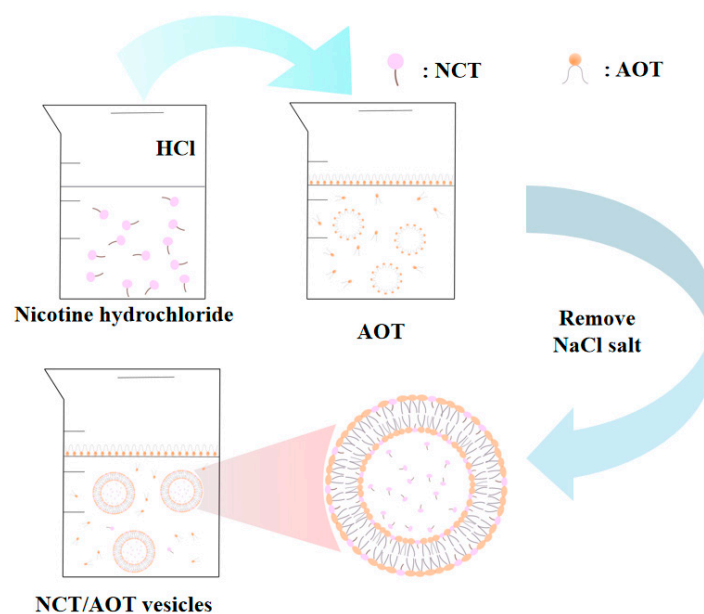


## Supporting Information



**Figure S1.** Standard curve of NCT/water solution.



**Scheme S1.** The preparation process of NCT/AOT vesicles.

**Table S1.** Toxicity of NCT/AOT to Aphids.

Sample	<sup>a</sup> LC <sub>50</sub> /ppm	Regression Equation	Correlation Coefficient
NCT	91.68	Y=0.478X+4.063	0.99
AOT	99.03	Y=4.271X-3.524	0.94
NCT/AOT	10.55	Y=2.370X+2.575	0.99

<sup>a</sup>Lethal concentration that cause 50% mortality.

**Table S2.** pH of NCT/AOT at different molar ratio of NCT and (AOT+NCT).

<b>Molar Ratio</b>	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
<b>pH</b>	2.23	1.73	1.46	1.31	1.29	1.12	1.04	0.98	0.92

**Table S3.** Particle size, PDI and Zeta potential of NCT/AOT at different dilution ratio.

<b>Dilution Ratio</b>	0	200	500	1000	2000
<b>Particle size (nm)</b>	198±2	187±2	186±3	178±1	159±1
<b>PDI</b>	0.23	0.21	0.23	0.15	0.10
<b>Zeta potential (mV)</b>	-56.5±1.1	-54.8±2.2	-43.6±0.3	-39. 0±0.8	-32.8±2.0