

Electronic Supplementary Material (ESI)

## **Synthesis of thiodiazole copper microcapsules and release behavior of inhibiting *R. solanacearum***

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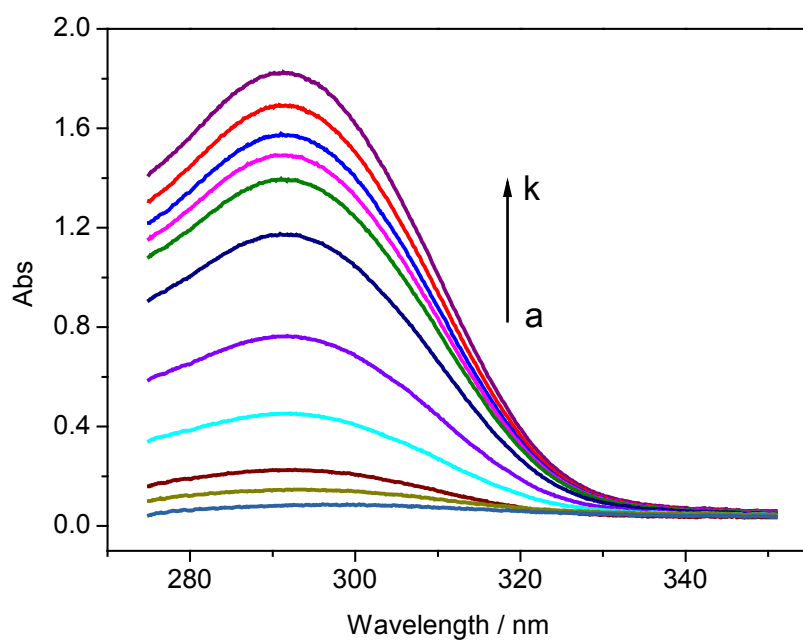
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## S1 UV- visible absorption spectra



**Fig. S1 (A)** UV-visible absorption spectra of the released concentrations of AMT of different immersion time (pH=6 and 30°C): (a) 10 min, (b) 30 min, (c) 1.5 h, (d) 34 h, (e) 50 h, (f) 60 h, (g) 120 h, (h) 228 h, (i) 312 h, (j) 348 h, (k) 480 h.

## S2 Grade investigating method of tobacco disease

Grade investigating method of tobacco disease refers to Chinese National Standard<sup>1</sup>.

**Table S1** Grade classification of disease index

Grade	Details
0	disease-free
1	seldom existing green spots in stem; or 1/2 withered leaf in disease side
3	existing black spots in stem, but lower 1/2 stem height; or withered leaf ranged from 1/2 to 2/3 in disease side
5	existing black spots more than 1/2 stem height, however not reach the top of stem; or more than 2/3 withered leaf in disease side
7	black spots reach the top of stem; or all leaves withered
9	the base of diseased plant died

$$\text{Disease index} = \frac{\sum (N_i \times G_i)}{N_t \times G_t} \times 100 \quad (\text{S1})$$

where,  $N_i$  is the number of diseased leaves of every grade;  $G_i$  is the corresponding grade of  $N_i$ ;  $i = 1, 2, 3, \dots, n$ ;  $N_t$  is the total number of leaves;  $G_t$  is the highest grade.

$$\text{Control effect (\%)} = \frac{C_d - T_d}{C_d} \times 100 \quad (\text{S2})$$

where,  $C_d$  is the disease index in the control area,  $T_d$  is the disease index in the treatment area.

### References

1. GB/T 23222-2008. Grade and investigation method of tobacco diseases and insect pests.