***Supplementary Materials for***

**Synergistic effect of berberine-based Chinese medicine assembled nanostructures on diarrhea-predominant irritable bowel syndrome *in vivo***

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1. 5-HT in colon tissue.

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| **Table S1** 5-HT in colon tissue (ng/mL) | | |
| **group** | **mean** | **S.D.** |
| Normal | 92.38 | 16.43 |
| Model | 193.08 | 22.66 |
| Complex | 56.83 | 17.71 |
| Mixture | 154.27 | 2.33 |
| Baicalin | 112.53 | 8.11 |
| Berberine | 72.20 | 14.72 |

2. VIP in colon tissue.

|  |  |  |
| --- | --- | --- |
| **Table S2** VIP in colon tissue (ng/L) | | |
| **group** | **mean** | **S.D.** |
| Normal | 128.75 | 23.36 |
| Model | 358.05 | 110.31 |
| Complex | 71.18 | 2.48 |
| Mixture | 141.78 | 17.73 |
| Baicalin | 314.73 | 95.70 |
| Berberine | 113.60 | 9.53 |

3. 5-HT of serum.

|  |  |  |
| --- | --- | --- |
| **Table S3** 5-HT of serum (ng/mL) | | |
| **group** | **mean** | **S.D.** |
| Normal | 58.81 | 22.55 |
| Model | 117.56 | 13.21 |
| Complex | 41.71 | 4.06 |
| Mixture | 76.02 | 11.64 |
| Baicalin | 104.21 | 31.19 |
| Berberine | 67.71 | 5.51 |

4. ChAT of serum.

|  |  |  |
| --- | --- | --- |
| **Table S4** ChAT of serum (U/L) | | |
| **group** | **mean** | **S.D.** |
| Normal | 258.82 | 87.08 |
| Model | 371.62 | 5.92 |
| Complex | 196.11 | 12.41 |
| Mixture | 234.18 | 3.20 |
| Baicalin | 147.59 | 31.96 |
| Berberine | 264.74 | 19.93 |

5. Relative expression of NF-κB in colon tissue.

|  |  |  |
| --- | --- | --- |
| **Table S5** Relative expression of NF-κB in colon tissue | | |
| **group** | **mean** | **S.D.** |
| Normal | 24.41 | 1.06 |
| Model | 33.65 | 5.75 |
| Complex | 23.32 | 4.38 |
| Mixture | 32.64 | 6.07 |
| Baicalin | 32.37 | 9.87 |
| Berberine | 37.58 | 2.34 |

6. ROC curve of 16s.

