

**Table 1.** Characterization of *N. sativa* nanoliposomal formulation

| Test                     | Average        |
|--------------------------|----------------|
| Zeta average             | $131 \pm 1$    |
| zeta potential (mv)      | $- 51 \pm 1.5$ |
| Encapsulation efficiency | $64 \pm 7 \%$  |
| Poly dispersity index    | 0.3            |

**Table 2 .** The MIC results of the *N. sativa* on the growth of clinical isolates and reference strain of *Candida parapsilosis* complexe.

| No   | 256<br>µg/ml | 128<br>µg/m | 64<br>µg/ml | 32<br>µg/ml | 16<br>µg/ml | 8<br>µg/ml | 4<br>µg/ml | 2<br>µg/ml | 1<br>µg/ml | 0.5<br>µg/ml | PC | NC |
|------|--------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|--------------|----|----|
| C1   | S            | S           | S*          | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C2   | S            | S           | S           | S*          | R           | R          | R          | R          | R          | R            | +  | -  |
| C3   | S            | S           | S*          | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C4   | S            | S           | S           | S           | S*          | R          | R          | R          | R          | R            | +  | -  |
| C5   | S            | S           | S*          | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C6   | S            | S           | S           | S*          | R           | R          | R          | R          | R          | R            | +  | -  |
| C7   | S            | S           | S*          | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C8   | S            | S           | S           | S*          | R           | R          | R          | R          | R          | R            | +  | -  |
| C9   | S            | S*          | R           | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C10  | S            | S           | S           | S           | S*          | R          | R          | R          | R          | R            | +  | -  |
| C11  | S            | S           | S*          | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C12  | S            | S           | S           | S*          | R           | R          | R          | R          | R          | R            | +  | -  |
| C13  | S            | S           | S           | S           | S           | S*         | R          | R          | R          | R            | +  | -  |
| C14  | S            | S           | S*          | R           | R           | R          | R          | R          | R          | R            | +  | -  |
| C15  | S            | S           | S           | S*          | R           | R          | R          | R          | R          | R            | +  | -  |
| ATCC | S            | S           | S           | S*          | R           | R          | R          | R          | R          | R            | +  | -  |

S, Sensitive; R, Resistance; \*, the wells which represents the lowest concentration that inhibited 100% of the *Candida* growth; MIC, minimum inhibitory concentration; PC, positive control; NC, negative control

**Table 3 :** The MIC results of the *N.sativa* liposomal Nanoparticles on the growth of clinical isolates and reference strain of *Candida parapsilosis* complexe.

| No   | 500<br>µg/ml | 250<br>µg/ml | 125<br>µg/ml | 62.5<br>µg/ml | 31.25<br>µg/ml | 15.6<br>µg/ml | 7.81<br>µg/ml | 3.90<br>µg/ml | 1.95<br>µg/ml | 0.97<br>µg/ml | PC | NC |
|------|--------------|--------------|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----|----|
| C1   | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |
| C2   | S            | S*           | R            | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C3   | S            | S            | S*           | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C4   | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |
| C5   | S            | S            | S*           | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C6   | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |
| C7   | S            | S            | S*           | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C8   | S            | S            | S*           | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C9   | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |
| C10  | S            | S            | S*           | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C11  | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |
| C12  | S            | S            | S            | S             | S*             | R             | R             | R             | R             | R             | +  | -  |
| C13  | S            | S            | S*           | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C14  | S            | S*           | R            | R             | R              | R             | R             | R             | R             | R             | +  | -  |
| C15  | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |
| ATCC | S            | S            | S            | S*            | R              | R             | R             | R             | R             | R             | +  | -  |

S, Sensitive; R, Resistance; \*, the wells which represents the lowest concentration that inhibited 100% of the *Candida* growth; MIC, minimum inhibitory concentration; PC, positive control; NC, negative control