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Test Results

Respiratory Syncytial Virus

| Syncytial Virus | | | | |
|--------------------|-----------------------------|-------------------------------------|-------------|------|
| Crown | Viral load (Log10TCID50) | | | - |
| Group | (L) | <u>0g101 CII</u> 2 nd | 3 rd | - 01 |
| Virus strains | 3.0 | 4.5 | 4.7 | |
| Virus strains + JM | 2.5 | 4.0 | 3.7 |) |
| Cell strains | None | None | None | |
| Cell strains + JM | None | None | None | |

Calculation of viral inhibitory efficacy:

Substituting the values of the third test into the formula obtained the following results:

Respiratory syncytial virus inhibition percentage

 $= [1 - 10^{(-(4.7 - 3.7)]} \times 100 = 90.00$

Conclusion

The experiment results show that a 0.625% concentration of the JM nanomaterials inhibit cellular infection of respiratory syncytial viruses. The percentage of viral inhibition was 90.00%.