



Test Results

Respiratory Syncytial Virus

Group	Viral load (Log ₁₀ TCID ₅₀)		
	1 st	2 nd	3 rd
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%**.