



Test results

Influenza A virus (H1N1)

Group	Viral load (Log ₁₀ TCID ₅₀)		
	1 st	2 nd	3 rd
Virus strains	4.0	5.7	5.7
Virus strains +JM	2.5	3.2	4.0
Cell strains	None	None	None
Cell strains +JM	None	None	None

Calculation of viral inhibitory efficacy:

Substituting the mean of the three test results obtained the following results:

$$\text{Influenza virus inhibition percentage} = [1 - 10^{-(5.1 - 3.2)}] \times 100 = \mathbf{98.74}$$

Conclusion

The experiment results show that a 0.625% concentration of the JM nanomaterials inhibit cellular infection of influenza A virus. The percentage of viral inhibition was **98.74%**.