军事医学科学院 微生物流行病研究所

检测 报告

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送检样品:

矽世代一奈米矽土材料

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(公章)

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Verification of anti viral activity of Sistyle Nano Silicate Clay

sample against flue-virus, H1N1

Target Sport Co., LTD. and Beijing Institute of Microbiology and

Epidemiology agreed to perform an evaluation of the anti-viral efficacy of Sistyle

Nano Silicate Clay sample against flu-virus. The methods of cell culture together

with ELISA (enzyme linked immunity system assay) neutralization test carried out at

Beijing Institute of Microbiology and Epidemiology. Sistyle Nano Silicate Clay

sample showed significant efficacy in killing the flu-virus.

Materials

Tested sample: Sistyle Nano Silicate Clay (supplied by Target Sport Co.,

LTD.)

Virus strain

Name: A1/Guangdong/luoyu/H1N1

Resource: China-CDC

Major methods

The 0.9ml Sistyle Nano Silicate Clay sample was taken and added to a test tube.

The 0.1ml virus medium were added (contain 1640 medium pH 7.0) to the tube. The

samples were exposed to the virus medium for different time periods including;

0-1minuts, 60 minutes, 4 hours, 8 hours, 16 hours, and 24 hours. The treatment

samples were inoculated to the MDCK cell line. The plates were incubated for 24 or

Detection of the survived virus

The surviving viruses were detected through the ELISA (reference to the method supplied by WHO.). TCID₅₀ survived virus were determined by statistic method.

Results

Two samples (including one control sample) have been tested in our test. The samples shown significant efficacy on disinfect to the A/H1N1 flu-virus. The titer of the survived virus was $1.0*10^3$ after 1 hours contact with the **Sistyle Nano Silicate Clay** sample. The titer of the survived virus on the control sample was $1.0*10^4$ after contact 1 hour. And the viruses have been killed completely for the **Sistyle Nano Silicate Clay** treated samples after contact 8 hours. See figure 1

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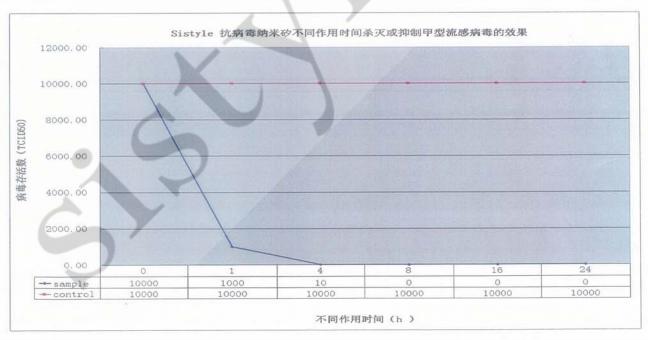


Figure 1 The result of Sistyle Nano Silicate Clay sample against the flue-virus

Conclusions

The titer of the survived virus was $1.0*10^3$ after 1 hours contact with the **Sistyle**Nano Silicate Clay sample. The titer of the survived virus on the control sample was $1.0*10^4$ after contact 1 hour. And the viruses have been killed completely for the Sistyle Nano Silicate Clay treated samples after contact 8 hours, 16 hours and 24 hours.

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AMMS, Institute of Microbiology and Epidemiology

Sep. 18,2009